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NEW ENGLAND
COLLECTION
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DIVISION OF SUBSTANCE ABUSE SERVICES

INDICATORS OF SUBSTANCE USE IN MASSACHUSETTS

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INTRODUCTION

Alcohol and other drug use and abuse are difficult to observe and measure directly. When asked, few individuals report that their use of alcohol or other drugs is either abusive or related to problems in their lives. The consequences of abuse, however, may be observed in disease, death, arrest, and admissions to drug and alcohol treatment programs. The relative prevalence of alcoholism and drug abuse, therefore, can be estimated from a variety of indicators.

Measurements based on indicator data are most useful for estimating the relative prevalence and change in prevalence rather than the absolute magnitude of the problem. Each indicator may be flawed. Hospital discharge data may be incomplete in some communities. Data on the contribution of alcohol and drugs to morbidity and mortality may only reflect the most obvious cases. Causes of death attributable to substance use may go unreported or unobserved. Arrest data can reflect increases and decreases in patrol time, variable attention to specific offenses, and reporting that may be incomplete. Although individual indicators have different weaknesses and biases, when viewed together, they form a mosaic that outlines the nature and extent of drug and alcohol problems in communities, suggest changes in magnitude over time, and identify differences from location to location.

The Department of Public Health, Division of Substance Abuse Services and Health and Addictions Research, Inc. have developed a database of indicators reflecting drug and alcohol problems. Data collected over several years was averaged to form more reliable and stable measures. The indicators are not used to make estimates of absolute prevalence. Comparisons between communities, however, suggest differences in relative prevalence. While drug and alcohol problems impact communities of all sizes, larger communities tend to have higher figures on most indicators.

COSTS OF ALCOHOL AND DRUG ABUSE

ALCOHOL COSTS

- o 406,000 Massachusetts women and men need treatment for alcoholism or drug abuse.
- o Massachusetts residents drink 2.7% of alcohol consumed in the U.S.
- o National cost of alcohol-related economic losses is \$137 billion.
- o Massachusetts share of alcohol-related economic costs is \$3.7 billion.

AIDS

- o 23% of Massachusetts AIDS cases reported to date are related to IV drug use (n=646).
- o 30% of AIDS cases reported between 5/1/89 and 10/31/89 were IVDU related (N=114).
- o 47% of women with AIDS have a history of IV drug use.
- o According to NASADAD, the annual estimated cost of caring for an AIDS patient is \$100,000.

CRIME

- o 13,476 commitments were made to houses of correction and state penal institutions in 1987.
 - o 40% of house of correction court commitments and 40% of state penal court commitments in 1988 were self-reported drug users.
 - o The FY 1990 annual cost for an inmate in a state penal institution is \$23,368.
-

Table 1.

COSTS OF ALCOHOL AND DRUG ABUSE TREATMENT

Modality	FY 1989 Admissions	Beds	Cost/ Episode	Average Wait
Detox	30,000	500	\$ 1,100	1 - 3 weeks
Residential	7,000	1,600	\$ 3,000	4 - 12 weeks
Outpatient	41,000	----	\$ 700	0 - 4 weeks
Methadone	4,200	----	\$ 3,500	0 - 4 weeks

DESCRIPTION OF SUBSTANCE USE INDICATORS

I. Hospital Patients

A. Source: Uniform Hospital Discharge Dataset
Hospital Rate-Setting Commission

B. Contents: Hospital patient discharge records with diagnoses (ICD-9 codes) related to either alcohol or drug use. Records were chosen for inclusion in the substance use indicator dataset if any of 238 substance use related codes were listed as principal or associated diagnoses. It is possible for a record to have more than one substance use related diagnosis. Discharge data were not submitted by the following hospitals during the years noted:

Boston City	1986 & 1987
Cambridge	1986
Quincy City	1986
Union (Lynn)	1986 & 1987
Lynn	1985 (partial) & 1986
Somerville	1987
Harvard Comm. Health	1987
Fairview	1986

In addition, the following hospitals did not report patient zip code:

Beverly	1985, 1986, & 1987
New England Med.	1985, 1986, & 1987
Bay State Med. (Springfield)	1985, 1986, & 1987
St. John's	1986 (partial) & 1987
Franklin County	1986 & 1987

Figures for the areas served by these hospitals will be under-reported.

C. Years Reported: 1985 - 1987

DESCRIPTION OF SUBSTANCE USE INDICATORS (cont.)

II. Deaths

- A. Source: Death Certificates
Massachusetts Department of Public Health
Bureau of Health Statistics
Research and Evaluation
- B. Contents: Number of deaths with causes or mentioned conditions related to alcohol or drug use as listed on the death certificate. Alcohol and drug related deaths were identified using the same ICD-9 codes as were used for the hospital discharge dataset. It is possible for each record to have more than one substance use related cause or condition.
- C. Years Reported: 1986 - 1988

III. Treatment Admissions

- A. Source: Substance Abuse Management Information System
Client Database
Massachusetts Department of Public Health
Division of Substance Abuse Services
- B. Contents: Admissions to substance abuse treatment agencies funded by the Division of Substance Abuse Services. Beginning in Fiscal Year (FY) 1988, the Division of Alcoholism (DOA) and the Division of Drug Rehabilitation (DDR) were merged into the Division of Substance Abuse Services (DSAS). Data for FY 1986 and 1987 combine the DOA and DDR client databases while FY 1988 and 1989 data are from the DSAS client database.
- C. Years Reported: FY 1986 - FY 1989

IV. Weekly AA/NA Meetings

- A. Source: Alcoholics Anonymous and Narcotics Anonymous
Meeting Lists
Eastern Mass.: Central Service Committee
Western Mass.: Western Mass. Intergroup Office
- B. Contents: Number of weekly AA and NA meetings in each town. Includes only meetings listed in the meeting lists. Many closed and twelve step meetings are not included in the meeting lists.
- C. Years Reported: 1986 - 1988. No information for Western Massachusetts in 1987.

DESCRIPTION OF SUBSTANCE USE INDICATORS (cont.)

V. Liquor Licenses

- A. Source: Massachusetts Retail Liquor Licensee Directory
Massachusetts Alcohol Beverages Control
Commission
- B. Contents: Number of liquor licenses issued to
establishments located in each town. Includes
licenses issued to (a) package stores, (b)
pharmacies, (c) restaurants, (d) taverns, (e)
general on premises, (f) hotels, and (g) clubs
for (a) all alcoholic beverages, (b) wines and
malt beverages only, and (c) malt beverages
only.
- C. Years Reported: 1986, 1987, and 1989. No directory was
published in 1988.

VI. District Court Filings

- A. Source: Annual Report of the Massachusetts Trial Court
Office of the Chief Administrative Justice
- B. Contents: Criminal complaints filed in the District Court
Department and in the Boston Municipal Court
Department for operating under the influence
(OUI) and narcotics. Filings and dispositions
represent the movement of cases through the
court departments and provide an index of the
activities of these courts. There are a total
of 69 courts under the jurisdiction of the
District Court Department. District court
figures are reported for the town in which the
court is located although the actual complaints
and litigants may have originated in other
towns.
- C. Years Reported: 1986 - 1988

DESCRIPTION OF SUBSTANCE USE INDICATORS (cont.)

VII. Uniform Crime Report

- A. Source: Uniform Crime Reporting Program
U. S. Department of Justice
Federal Bureau of Investigation
- B. Contents: Number of arrests reported to the Uniform Crime Reporting Program. Arrest data are supplied by city, county, and state law enforcement agencies. Substance use indicators include (a) arrests for sale and manufacturing of controlled substances, (b) possession of controlled substances, (c) liquor law violations, and (d) driving under the influence of liquor (DUIL). Only figures reported by local city and town law enforcement agencies are included in this report. Data from county sheriff departments and the state police are not included.
- C. Years Reported: 1986 - 1988

PLEASE NOTE: Indicators may not be mutually exclusive. For example, the same person may be arrested for DUIL (included in UCR data) and treated for cocaine in the substance abuse treatment system. Such a person would be included in both indicators.

INDICATORS OF SUBSTANCE USE IN MASSACHUSETTS

- o 21,000 hospital discharges and nearly 2,000 deaths related to alcohol and drug abuse
 - o 96,000 admissions to publicly-funded drug and alcohol treatment services
 - o 1,800 AA and NA meetings each week
 - o 9,700 liquor licenses issued each year
 - o 35,000 district court filings related to narcotics charges
 - o 17,000 arrests for sale/manufacturing and possession of controlled substances
-

Table 2
Substance Use in Massachusetts
Statewide Figures For 11 Indicators

<u>Data Source</u>	<u>Total Per Year</u>	<u>Rate Per Year</u>
Hospital Patients	21,642	371
Deaths	1,940	33
Treatment Admissions	96,493	1649
Weekly AA/NA Meetings	1,803	31
Liquor Licenses	9,732	166
Dist. Court Filings		
Narcotics	35,809	613
OUI	40,755	698
Uniform Crime Report		
Sale/Manufacture	4,766	82
Possession	12,275	210
Liquor Law	8,358	143
DUIL	26,310	450

Rate Per Year = Rate Per 100,000 Population

SUBSTANCE USE INDICATORS BY SIZE OF COMMUNITY

- o Communities of all sizes and characteristics are impacted by both direct and indirect consequences of substance use.
 - o Indicator rates are generally higher in larger communities. The 6 communities over 90,000 had the highest rates on most measures.
 - o The highest rate of alcohol-related liver disease (including cirrhosis) was found among communities between 50,000 and 90,000 in population.
 - o The rate of substance abuse related deaths in communities over 90,000 was nearly twice that in all other size of community categories. A similar pattern exists for substance abuse treatment admissions.
 - o The number of liquor licenses issued per 100,000 population was highest among communities under 10,000 in population. Many of these communities are in resort and recreational areas.
-

Table 3.

SUMMARY OF SIZE OF COMMUNITY CATEGORIES

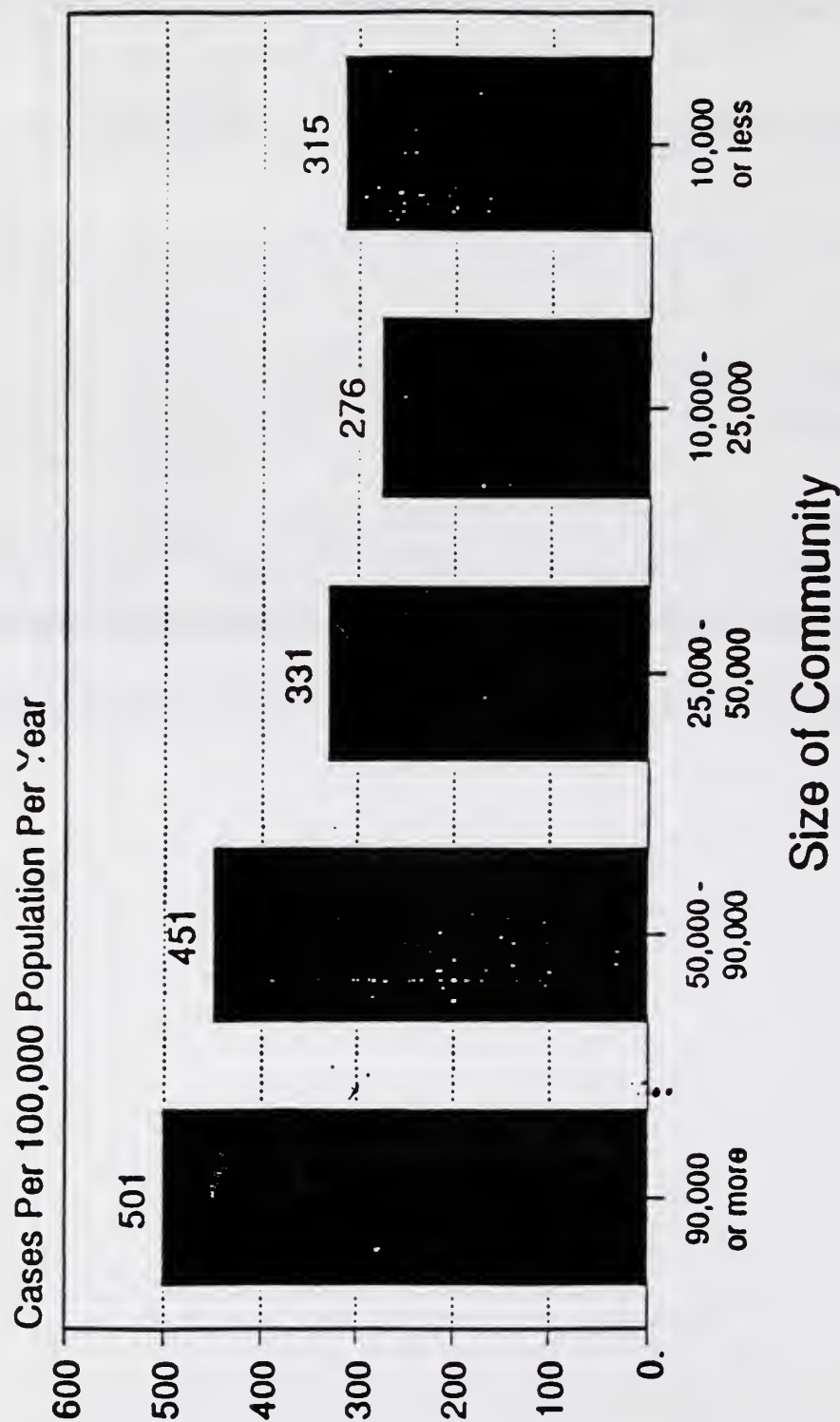
<u>Size of Community Category</u>	<u>Number of Communities</u>	<u>Total 1990 Proj. Census</u>
Over 90,000	6	1,161,859
50,000 - 90,000	14	945,366
25,000 - 50,000	46	1,534,075
10,000 - 25,000	93	1,470,959
Under 10,000	192	778,906
	<hr/>	<hr/>
TOTALS	351	5,891,165

Figure 1

Substance Abuse Related Hospital Cases

By Size of Community in Rate Per 100,000

Average Per Year - 1985 through 1987

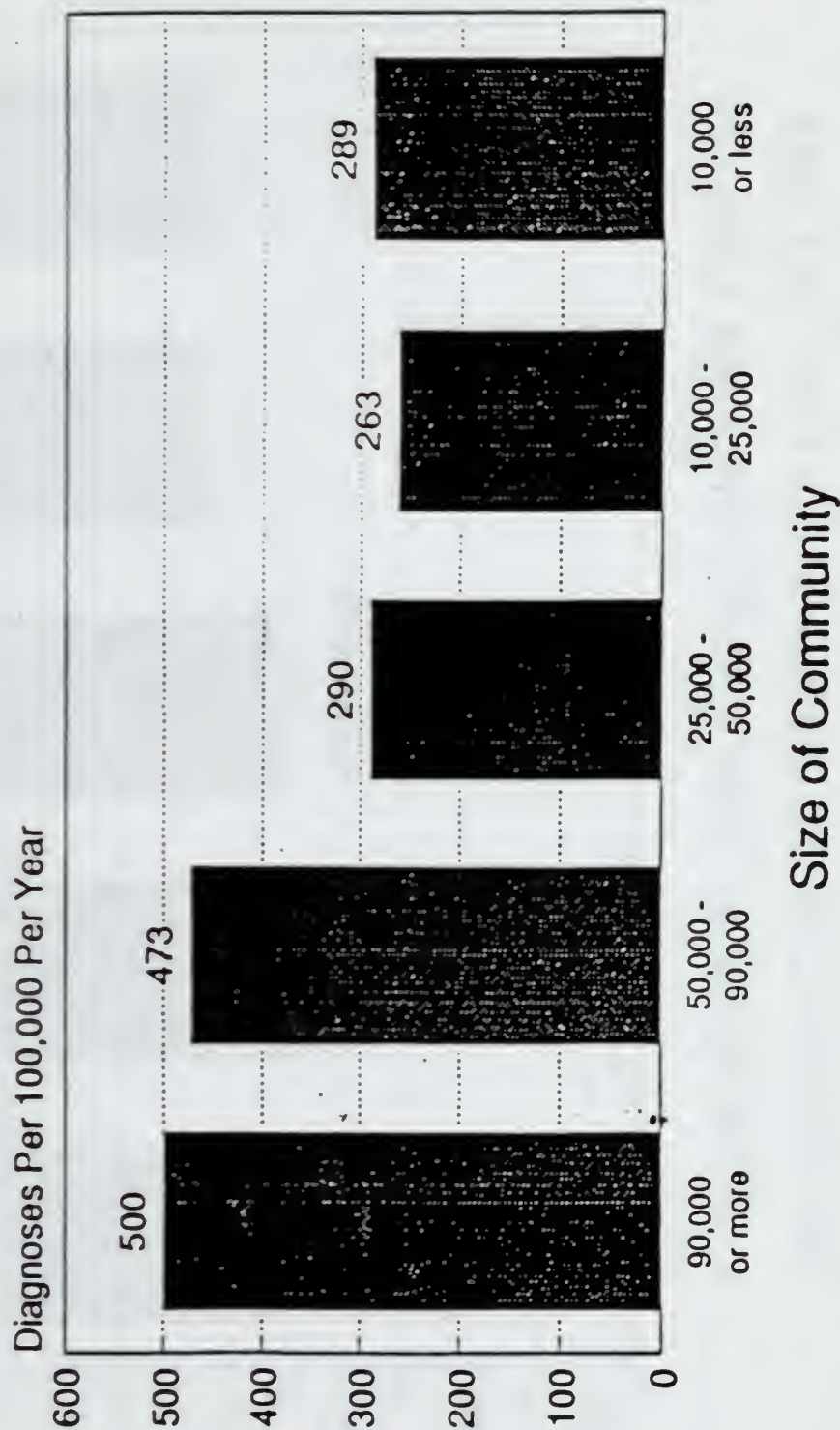


Source: Uniform Hospital Discharge Dataset, Hospital Rate-Setting Comm.

Figure 2

Alcohol Related Hospital Diagnoses

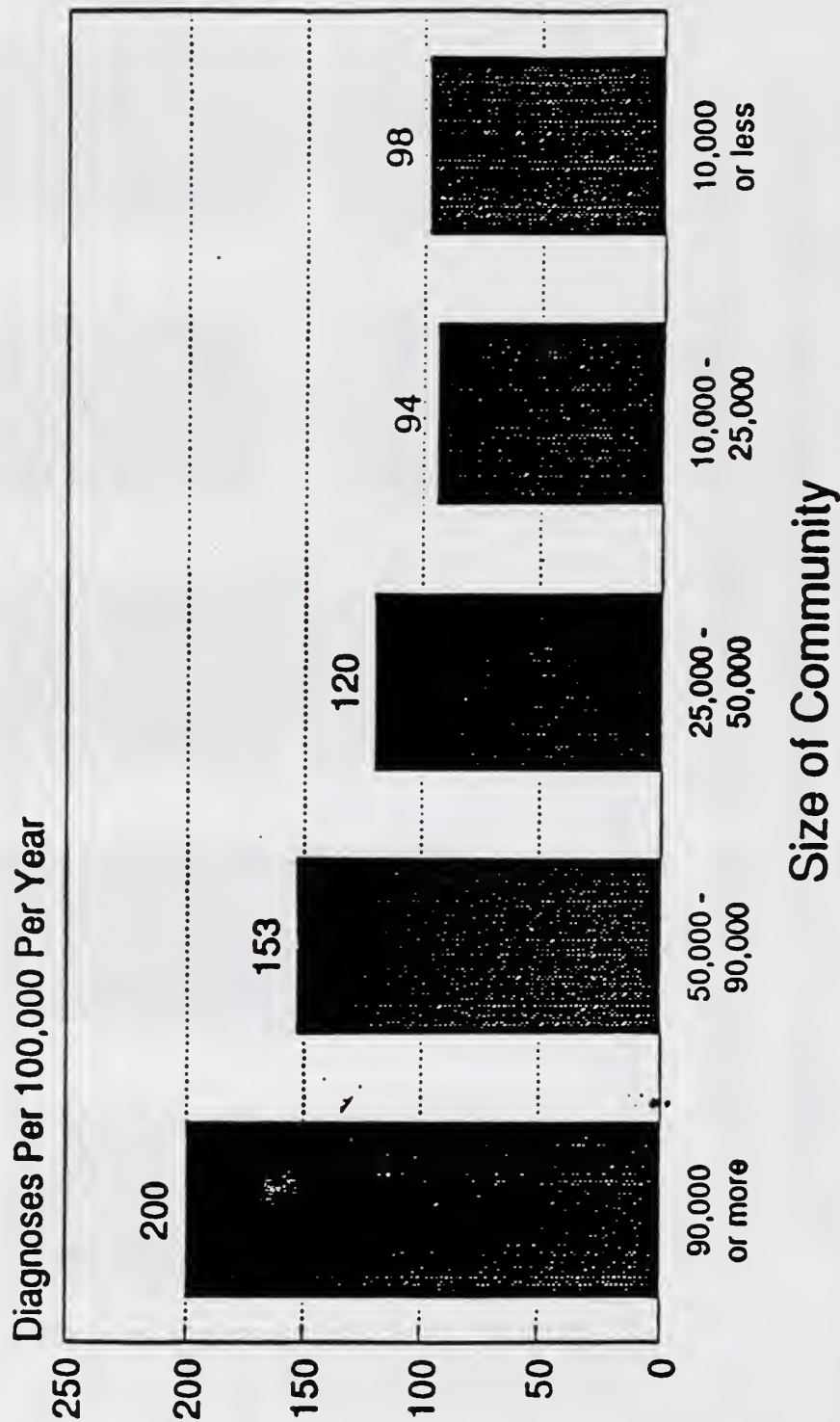
By Size of Community in Rate Per 100,000
Average Per Year - 1985 through 1987



Source: Uniform Hospital Discharge Dataset, Hospital Rate-Setting Comm.

Figure 3

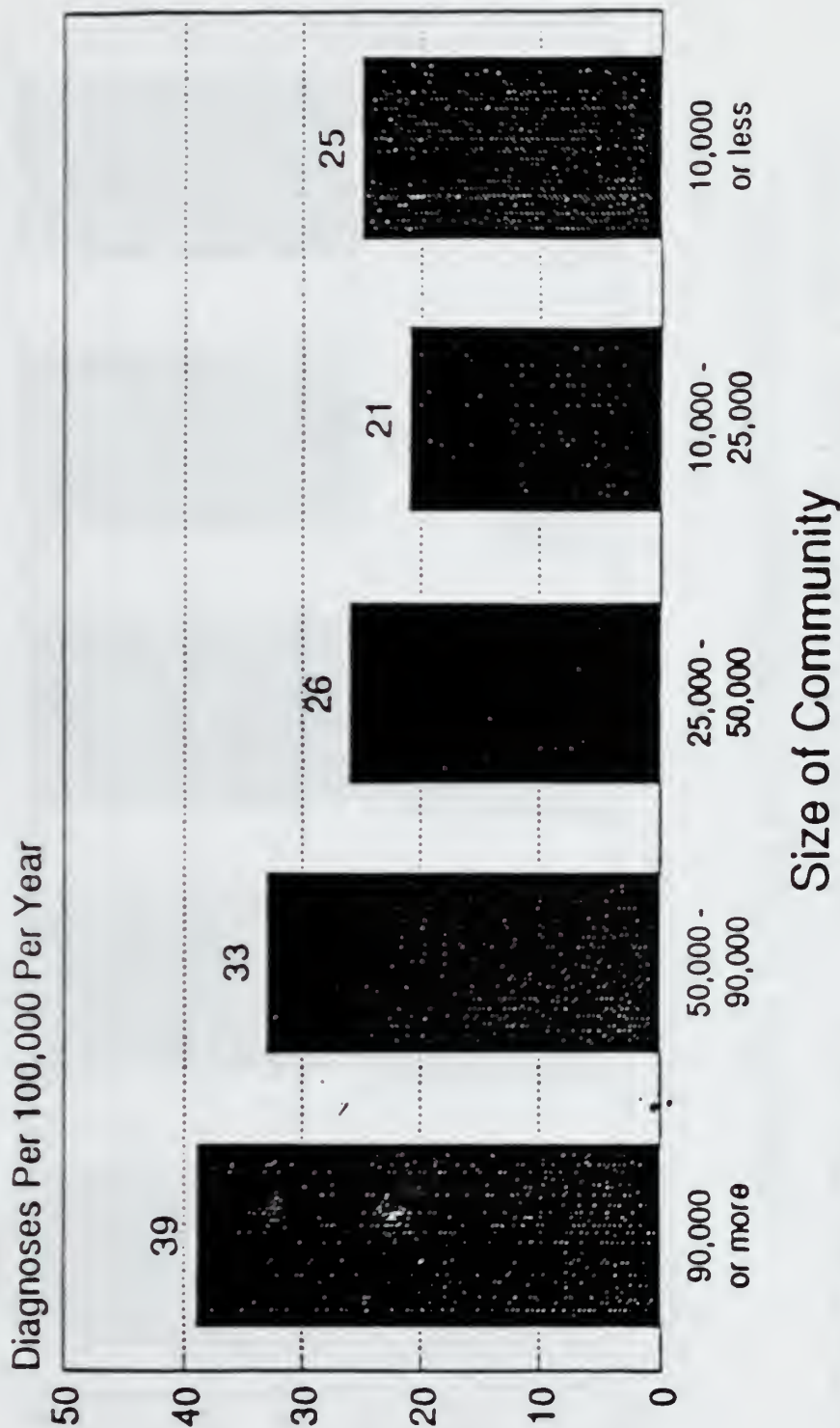
Drug Related Hospital Diagnoses By Size of Community in Rate Per 100,000 Average Per Year - 1985 through 1987



Source: Uniform Hospital Discharge Dataset, Hospital Rate-Setting Comm.

Figure 4

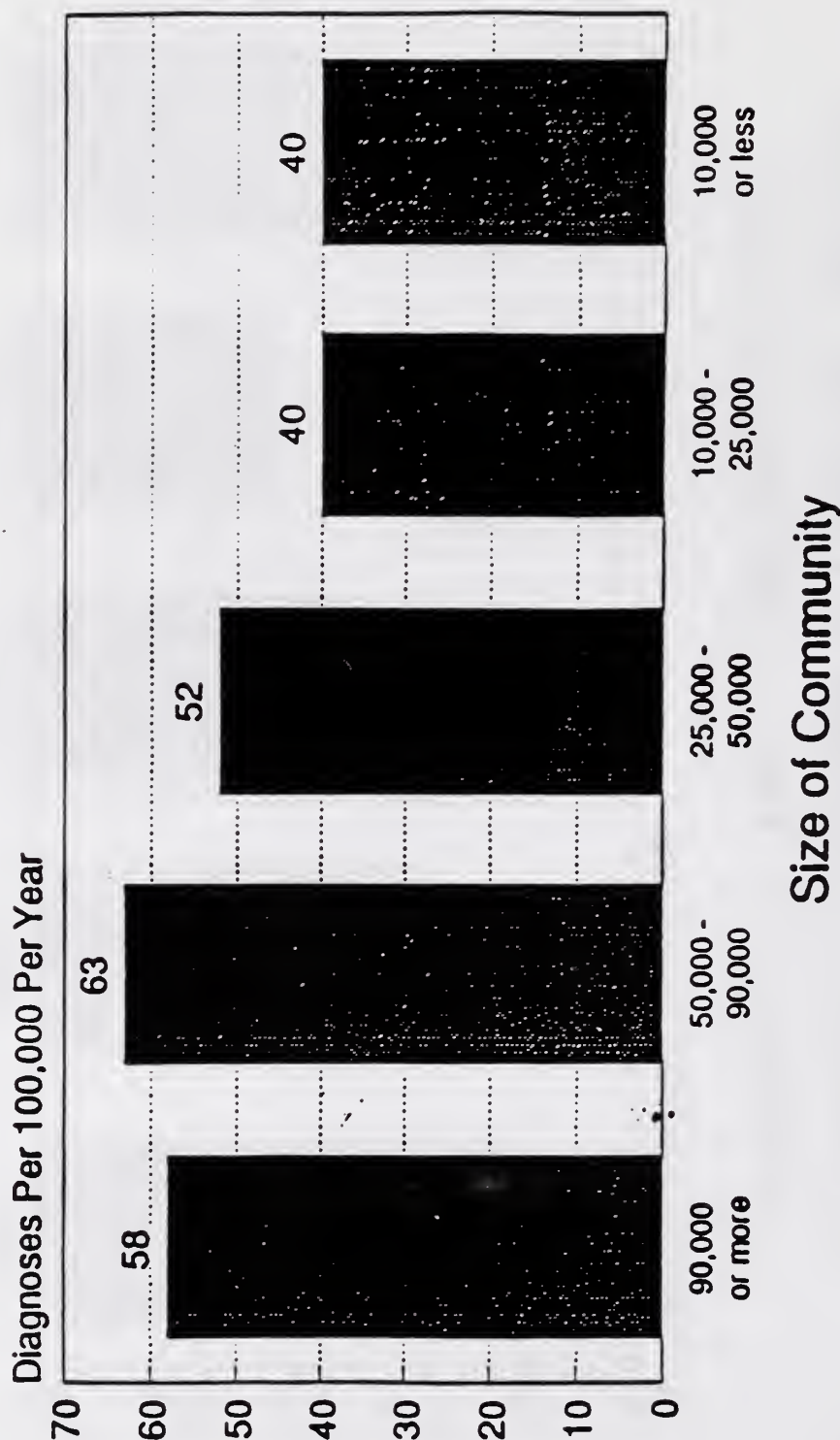
Hospital Hepatitis Diagnoses By Size of Community in Rate Per 100,000 Average Per Year - 1985 through 1987



Source: Uniform Hospital Discharge Dataset, Hospital Rate-Setting Comm.

Figure 5

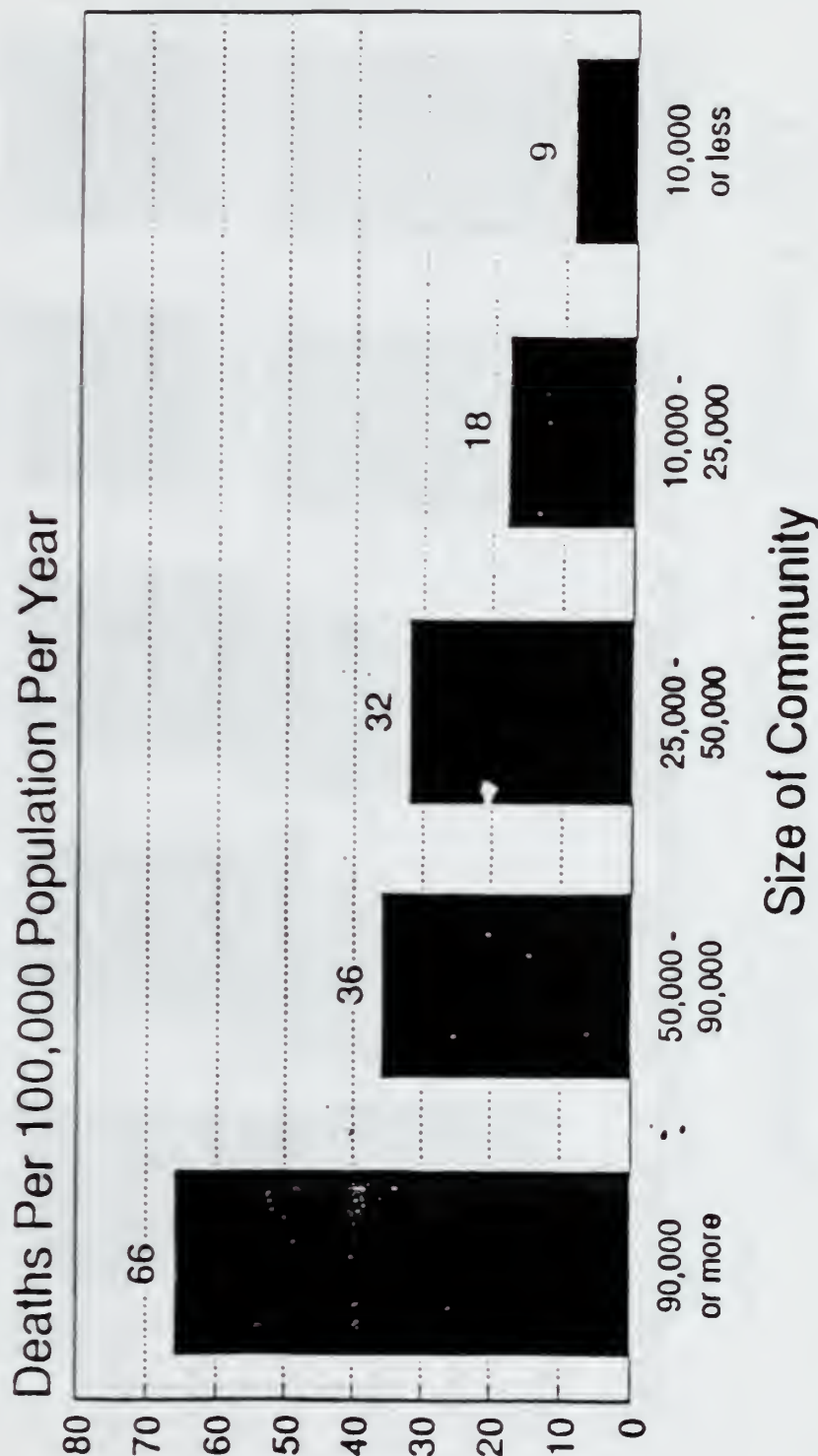
Hospital Liver Disease Diagnoses By Size of Community in Rate Per 100,000 Average Per Year - 1985 through 1987



Source: Uniform Hospital Discharge
Dataset, Hospital Rate-Setting Comm.

Figure 6

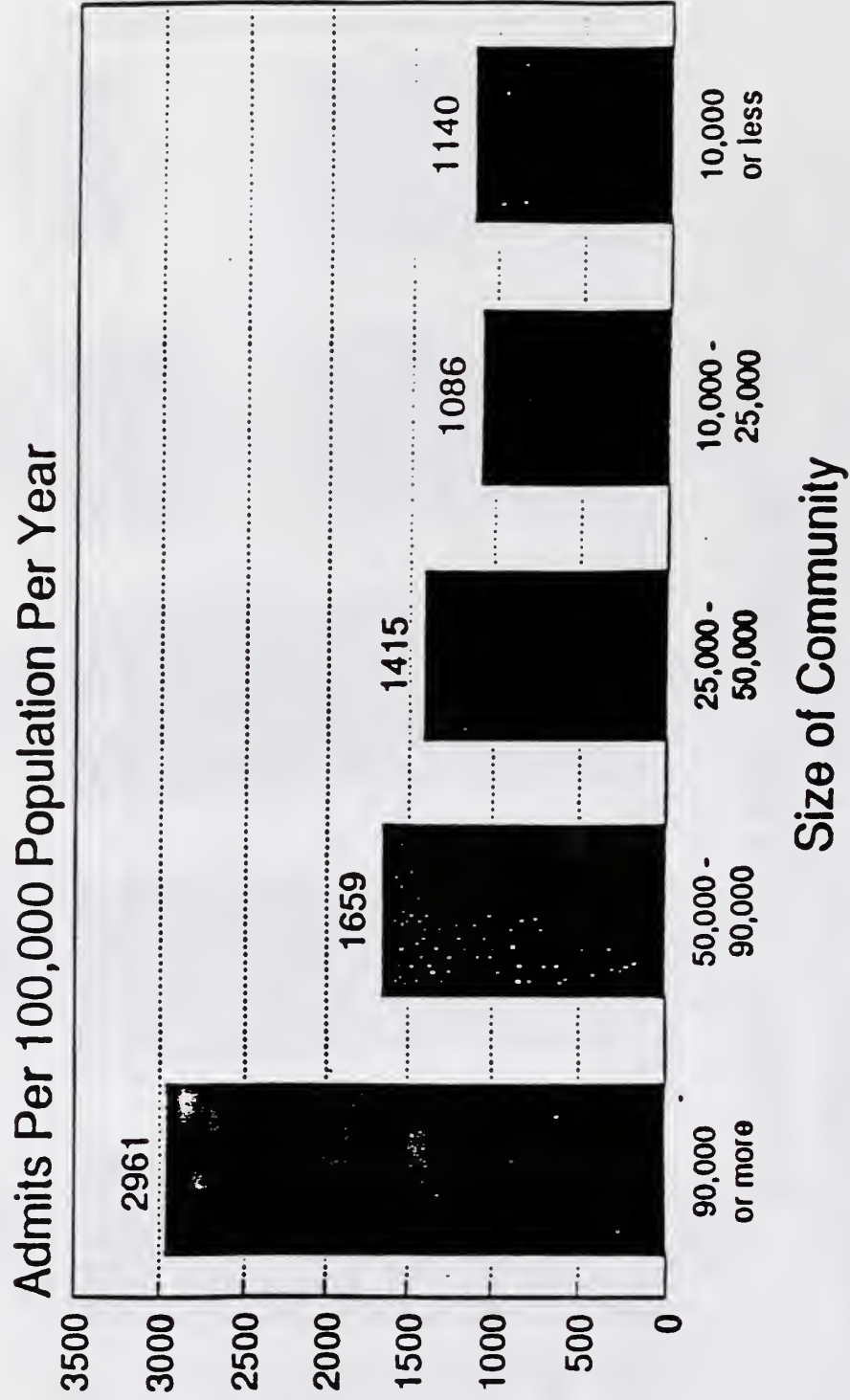
Substance Abuse Related Deaths By Size of Community in Rate Per 100,000 Average Per Year - 1986 through 1988



Source: Department of Public Health
Bureau of Health Statistics
Research and Evaluation

Figure 7

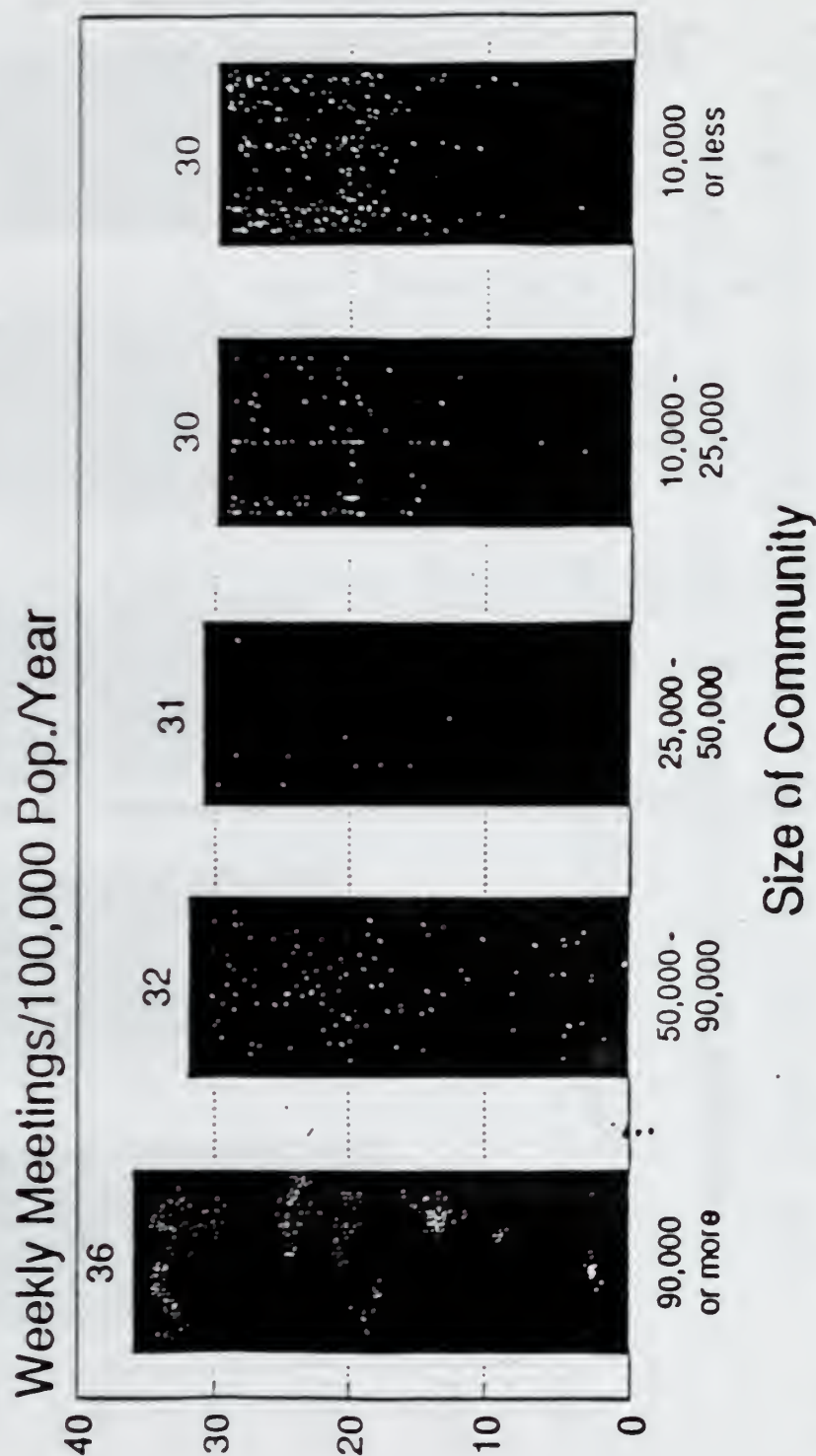
Substance Abuse Treatment Admissions By Size of Community in Rate Per 100,000 Average Per Year - FY86 through FY89



Source: Department of Public Health
Division of Substance Abuse Services

Figure 8

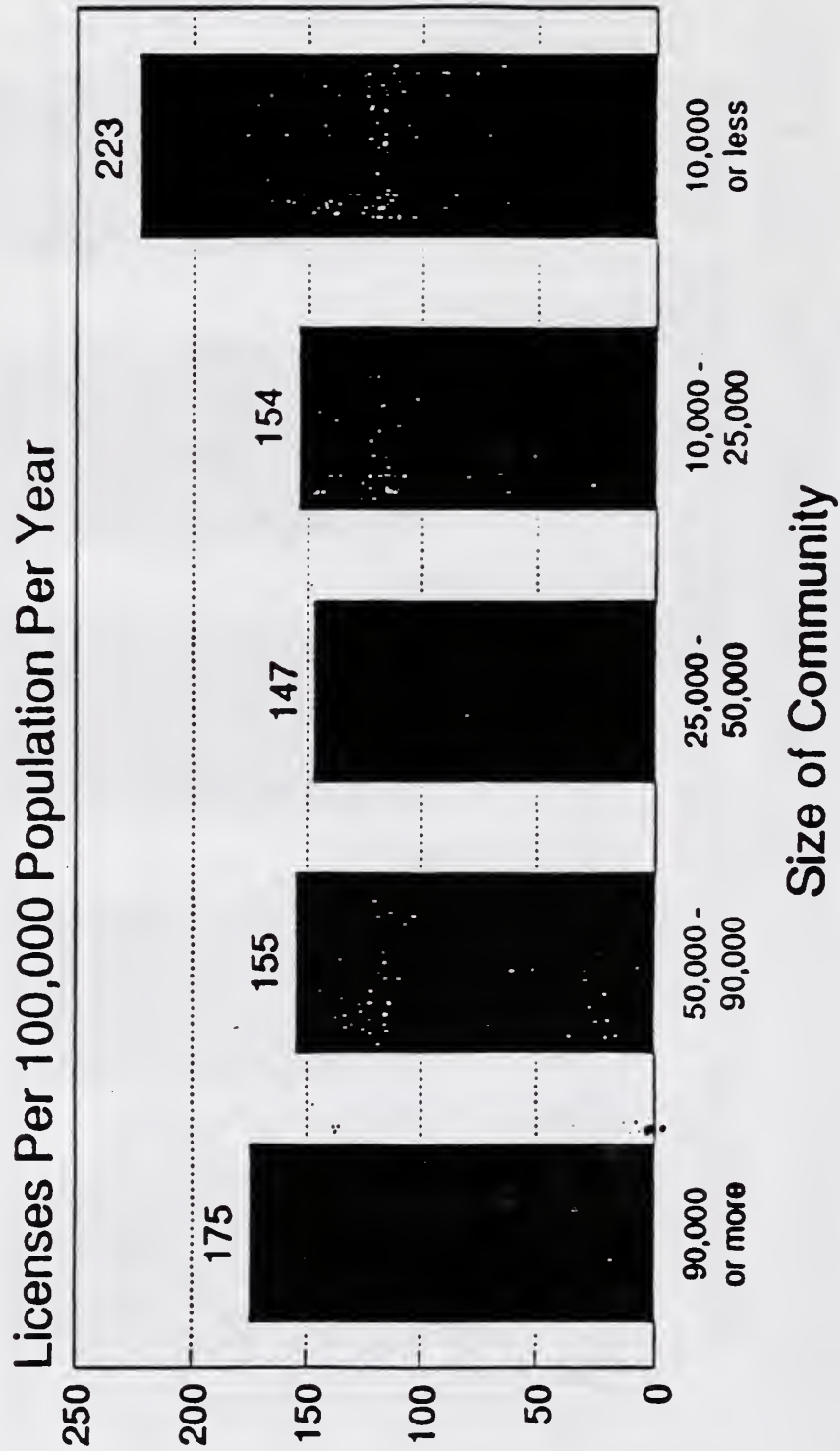
AA and NA Meetings By Size of Community in Rate Per 100,000 Average Per Year - 1986 through 1988



Source: AA and NA Meeting Lists
1987 data are incomplete

Figure 9

Liquor Licenses Issued By Size of Community in Rate Per 100,000 Average Per Year - 1986, 1987, & 1989



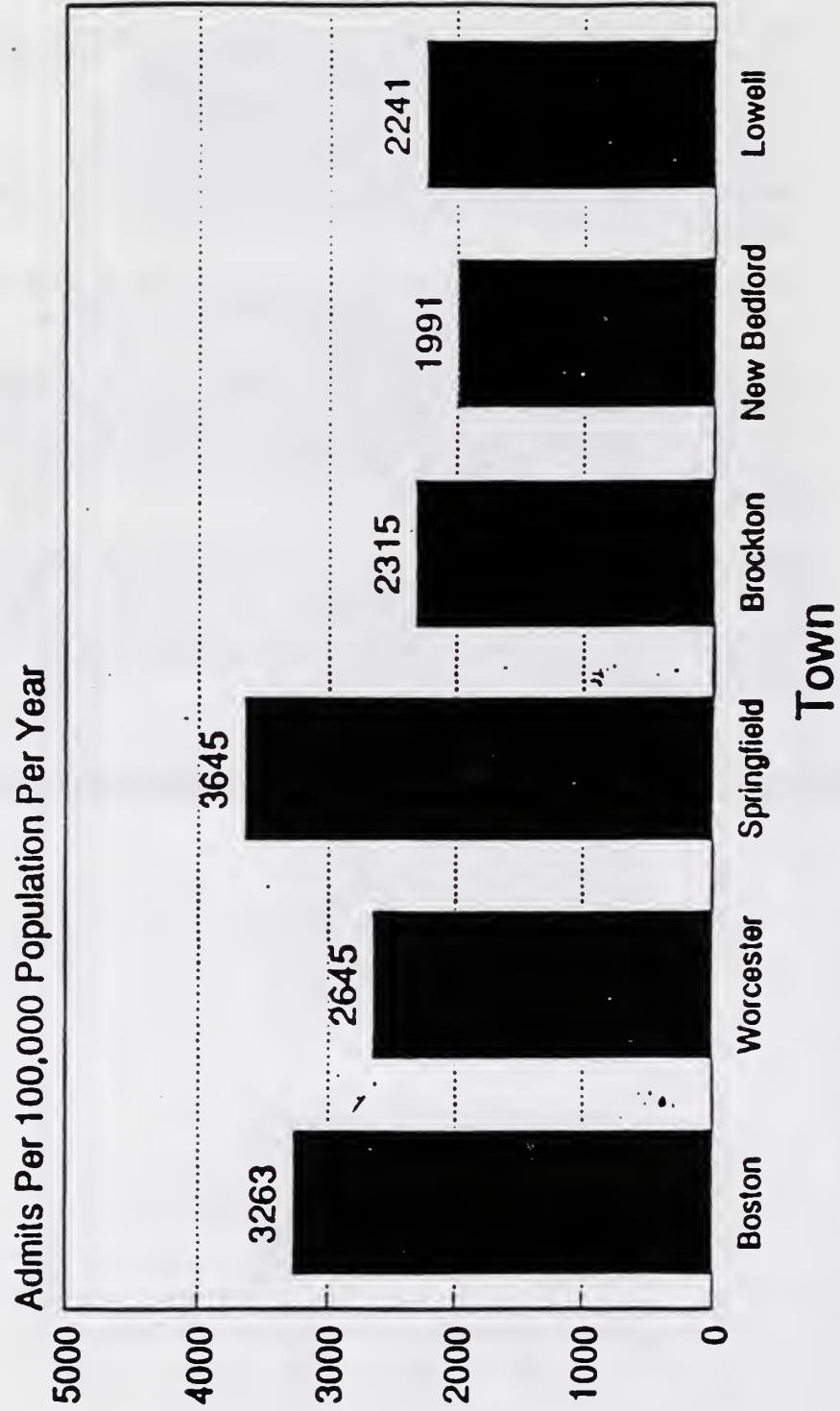
Source: Massachusetts Alcohol Beverage
Control Commission

SUBSTANCE USE INDICATORS IN CITIES OVER 90,000 IN POPULATION

- o The six cities in Massachusetts with a projected population in 1990 of over 90,000 are BOSTON, WORCESTER, SPRINGFIELD, BROCKTON, NEW BEDFORD, and LOWELL.
 - o Among these cities, SPRINGFIELD had the highest rate of admissions to substance abuse treatment per 100,000 population.
 - o The highest substance abuse related death rate was in BOSTON, followed closely by WORCESTER and LOWELL.
 - o WORCESTER had the highest rate of substance use related hospital cases. The rates for BOSTON and SPRINGFIELD are under-reported due to a lack of data from Boston City Hospital and New England Medical Center in Boston and Bay State Medical Center in Springfield.
 - o The number of liquor licenses issued per 100,000 population was highest for NEW BEDFORD, followed by BOSTON and WORCESTER.
 - o BOSTON and BROCKTON had the highest rates of weekly self-help group meetings.
-

Figure 10

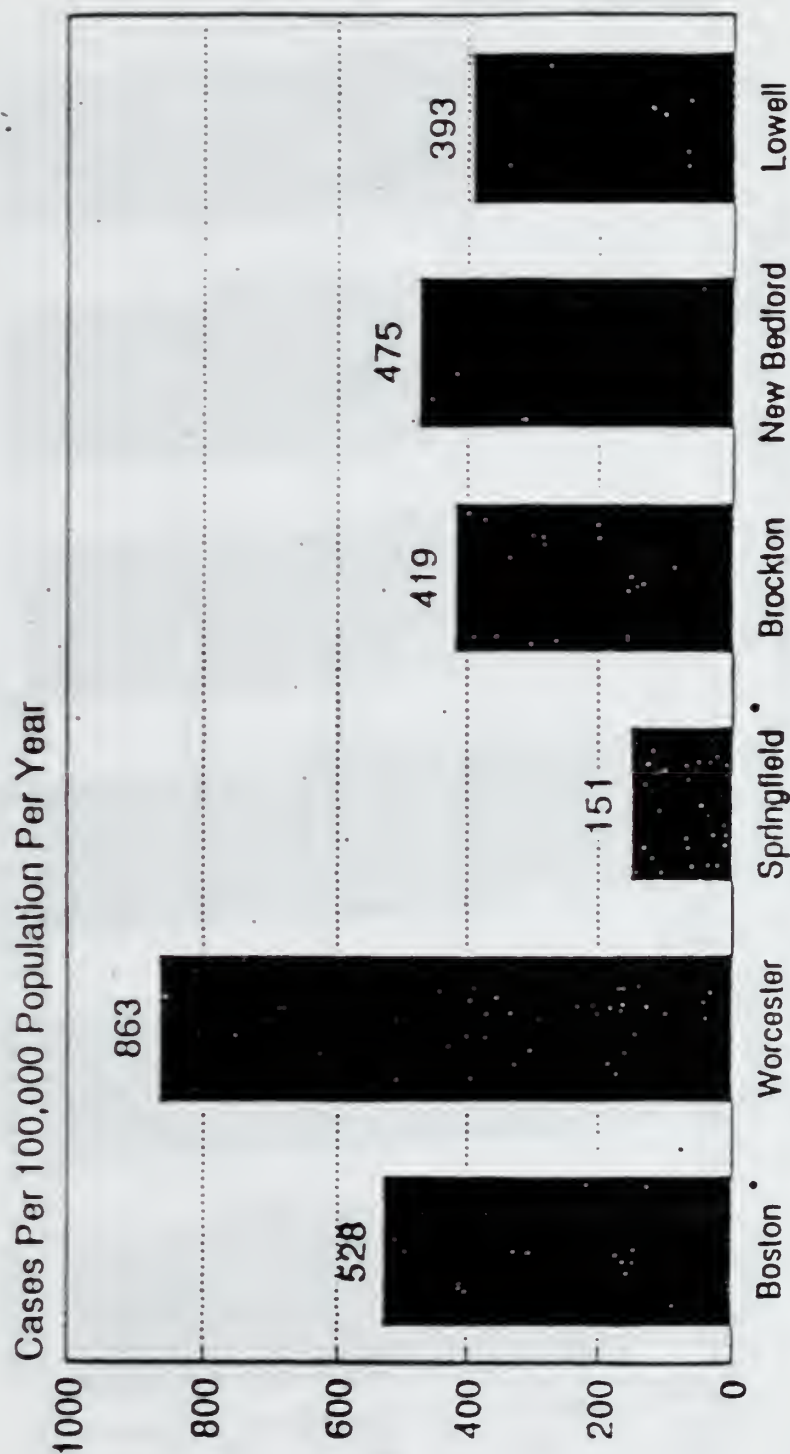
Substance Abuse Treatment Admissions
Towns of 90,000 Population or More
Rate Per Year - FY86 through FY89



Source: Department of Public Health
Division of Substance Abuse Services

Figure 11

Substance Use Related Hospital Cases Towns of 90,000 Population or More Rate Per Year - 1985 through 1987



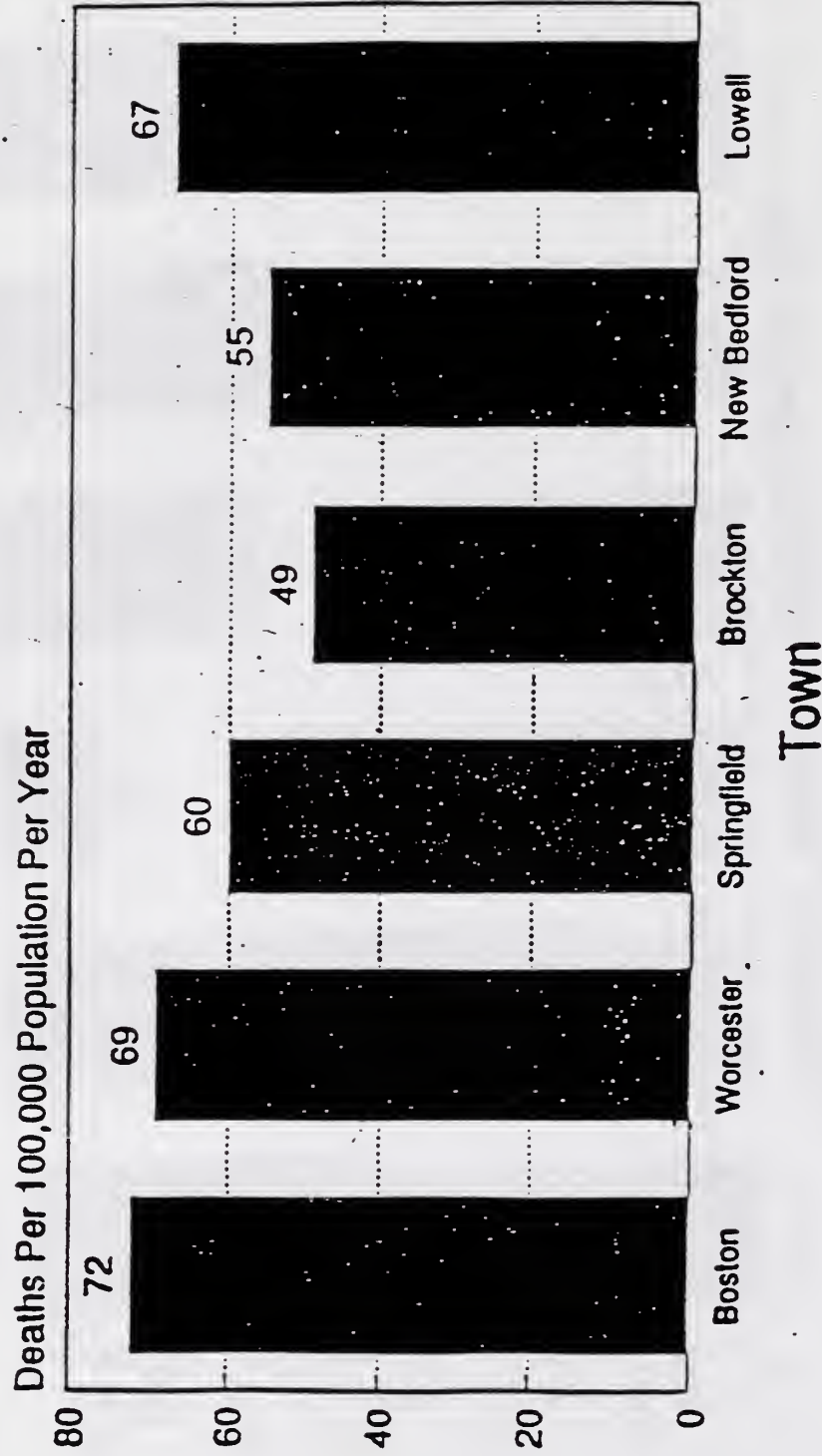
Town

Source: Uniform Hospital Discharge
Dataset, Hospital Rate-Setting Comm.

No Information from Boston City Hospital,
New England Medical Center (Boston) or
Bay State Medical Center (Springfield)

Figure 12

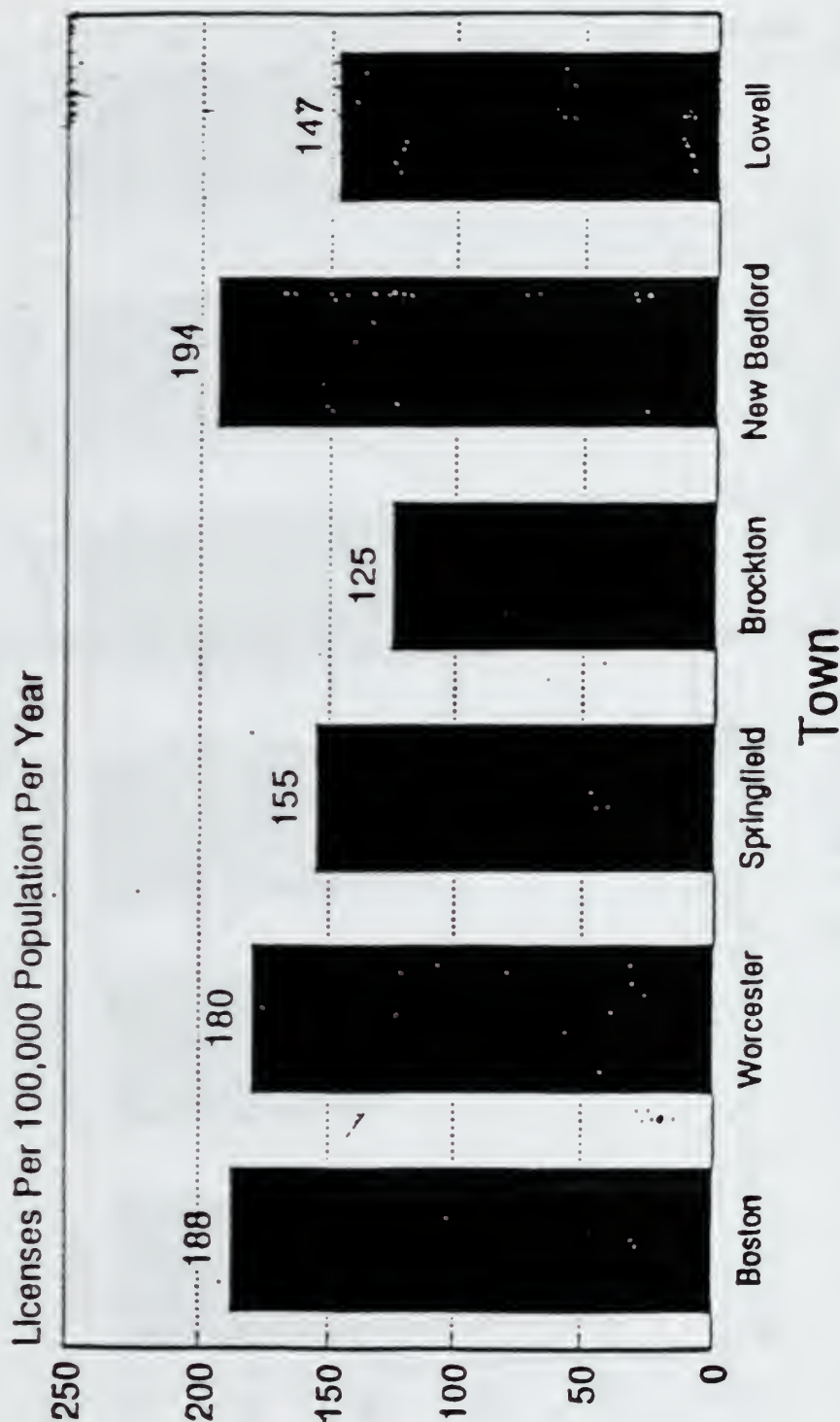
Substance Use Related Deaths
Towns of 90,000 Population or More
Rate Per Year - 1986 through 1988



Source: Department of Public Health
Bureau of Health Statistics
Research and Evaluation

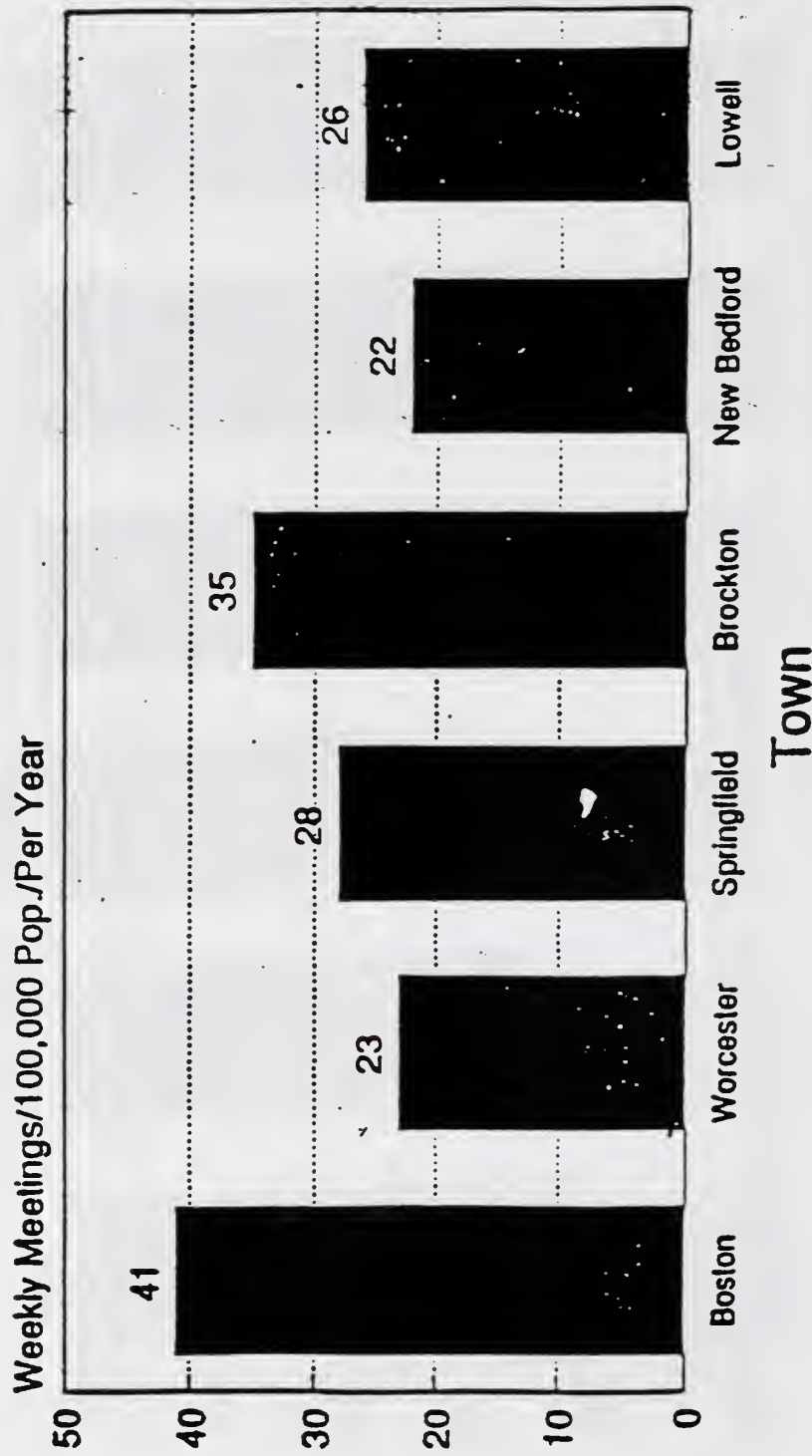
Figure 13

Liquor Licenses Issued
Towns of 90,000 Population or More
Rate Per Year - 1986, 1987, & 1989



Source: Massachusetts Alcohol Beverage
Control Commission

Weekly AA and NA Meetings\$ Towns of 90,000 Population or More Rate Per Year - 1986 through 1988



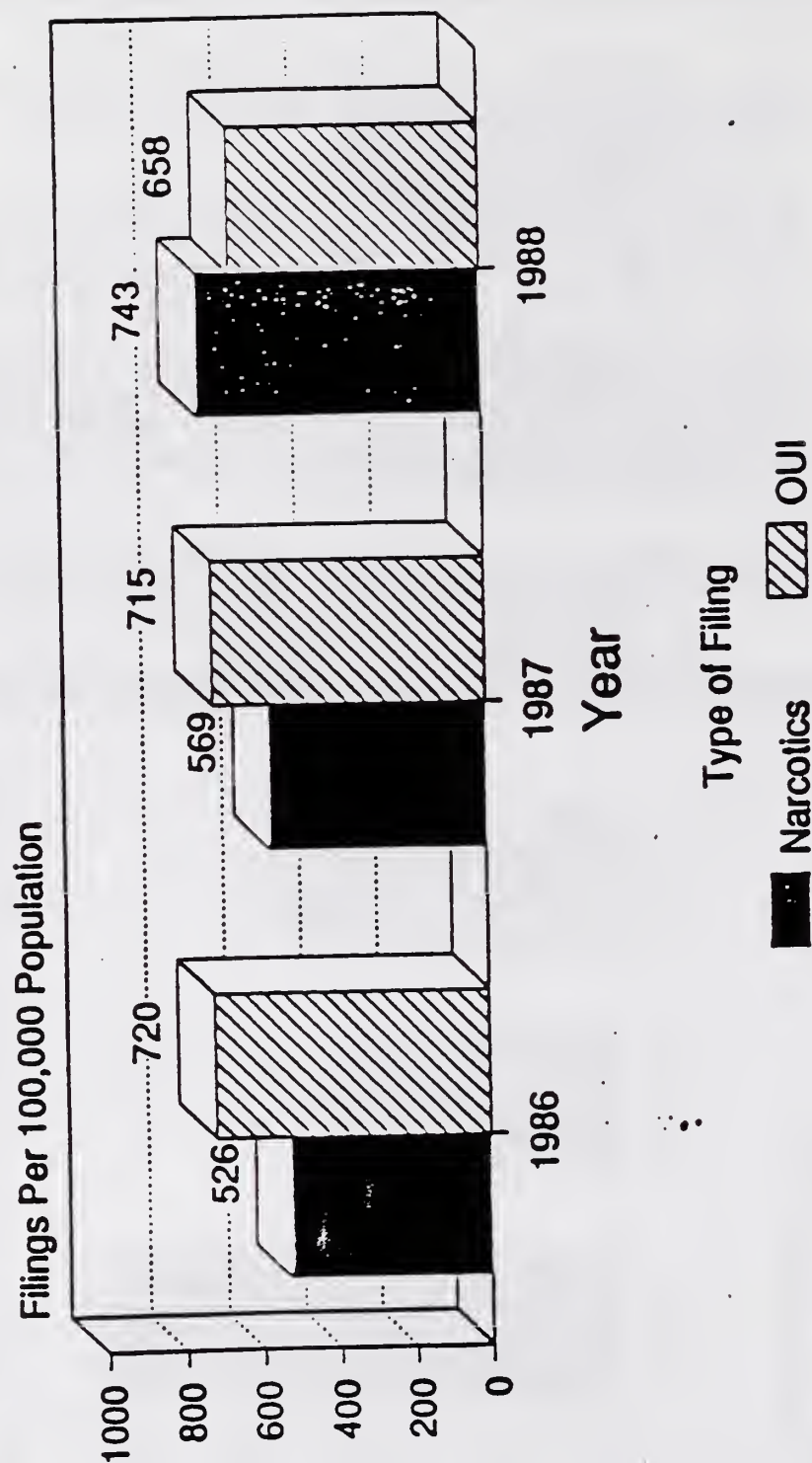
Source: AA and NA Meeting Lists
1987 data are incomplete for towns in
Western Massachusetts

TRENDS IN STATEWIDE SUBSTANCE USE INDICATORS

- o Most statewide indicator totals and rates per 100,000 population were stable over the years covered by this analysis.
 - o DISTRICT COURT NARCOTICS COMPLAINTS rose from a rate of 526 per 100,000 population in 1986 to 743 per 100,000 in 1988. Over the same time period, operating under the influence (OUI) rates fell, from 720 per 100,000 to 658 per 100,000.
 - o ARRESTS FOR SALE/MANUFACTURING and POSSESSION of controlled substances rose from a rate of 215 per 100,000 population in 1986 to 375 per 100,000 in 1988. DRIVING UNDER THE INFLUENCE OF LIQUOR ARRESTS fell from a rate of 517 per 100,000 in 1986 to 414 per 100,000 in 1988.
 - o First and second offender DRUNK DRIVING PROGRAM ADMISSIONS have shown trends that parallel the court and arrest data.
-

Figure 15

District Court OUI and Narcotics Filings Rate Per 100,000 Population Per Year Massachusetts: 1986 - 1988



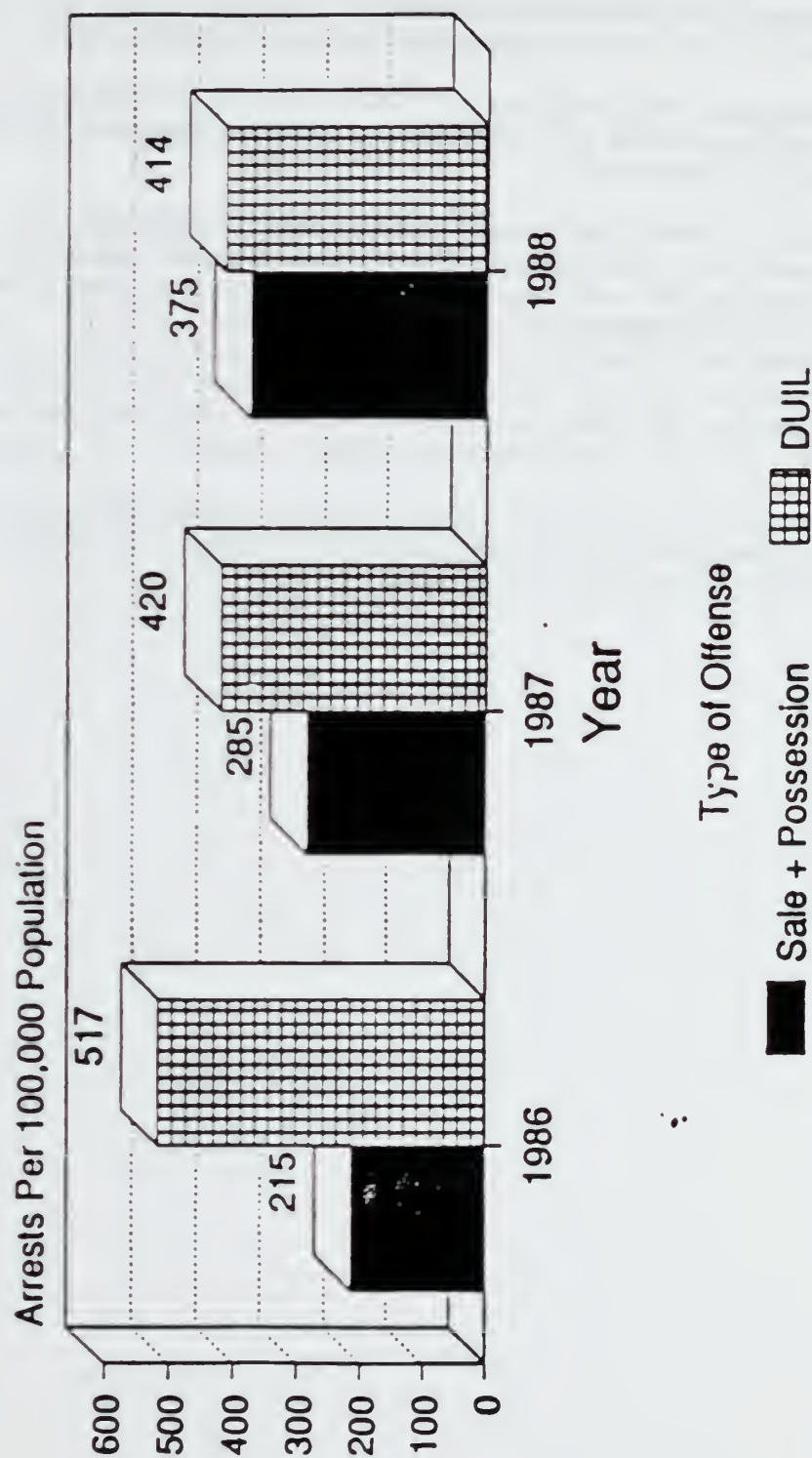
Source: Annual Report of the
Massachusetts Trial Court

Figure 16

Drug and Alcohol Related Arrests

Rate Per 100,000 Population Per Year

Massachusetts: 1986 - 1988



Source: U. S. Department of Justice
Uniform Crime Reporting Program

ACTION STEPS FOR COMMUNITIES

- o Examine the constellation of indicators that describe the extent to which individual communities are affected by the negative consequences of alcohol and other drug use
- o Compare the status of individual communities to others of similar size to determine indicators of particular impact in each community
- o Encourage local data collectors such as law enforcement agencies and hospitals to keep precise and complete data to provide as accurate a reflection as possible of the community's status
- o Appoint a task force or use existent resources to study the results of the substance abuse indicators and develop a plan of action for reducing their impact on the community
- o Monitor the results of these steps through the indicator project's yearly release of community data and adapt interventions accordingly

APPENDICES

- Appendix A List of Towns and Projected 1990 Census by Size of
Community Classification
- Appendix B Substance Use Indicators by Town - Mean Per Year
- Appendix C Substance Use Indicators by Town - Mean Rate Per
100,000 Population Per Year
- Appendix D ICD-9 Codes Used to Select Records from the Hospital
Discharge and Death Certificate Databases

APPENDIX A

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**LIST OF TOWNS AND PROJECTED 1990 CENSUS
BY SIZE OF COMMUNITY CLASSIFICATION**

LIST OF TOWNS & PROJECTED 1990 CENSUS BY SIZE OF COMMUNITY CATEGORY

18.19 THURSDAY, MARCH 15, 1990

SIZE OF COMMUNITY-OVER 90,000 (N=6)

TOWN	PROJECTED CENSUS 1990
BOSTON	574220
BROCKTON	96961
LOWELL	94024
NEW BEDFORD	96566
SPRINGFIELD	145380
WORCESTER	154708

SIZE OF COMMUNITY=50,000 - 90,000 (N=14)

TOWN	PROJECTED CENSUS 1990
BROOKLINE	52321
CAMBRIDGE	88205
CHICOPEE	56736
FALL RIVER	89266
FRAMINGHAM	63611
LAWRENCE	62565
LYNN	78163
MALDEN	53243
MEDFORD	56296
NEHTON	81219
QUINCY	81296
SOMERVILLE	71300
HALTHAM	56825
NEYMOUTH	54320

SIZE OF COMMUNITY=25,000 - 50,000 (N=46)

TOWN	PROJECTED CENSUS 1990
AGAHAM	27351
AMHERST	33683
ANDOVER	27118
ARLINGTON	42744
ATTLEBORO	35483
BARNSTABLE	39931
BEVERLY	36126
BILLERICA	38181
BRAINTREE	34690
CHELMSFORD	31706
CHELSEA	25725
DARTMOUTH	26135
DRACUT	25406
EVERETT	35932
FALMOUTH	26572
FITCHBURG	39219

LIST OF TOWNS & PROJECTED 1990 CENSUS BY SIZE OF COMMUNITY CATEGORY

18-19 THURSDAY, MARCH 15, 1990

SIZE OF COMMUNITY=25,000 - 50,000 (N=46)

PROJECTED
CENSUS
1990

TOWN

GLoucester	28144
HAVERHILL	48999
HOLYOKE	41486
LEOMINSTER	35227
LEXINGTON	27709
MARLBORO	31044
MELROSE	27973
METHUEN	40716
MILTON	25354
NATICK	30147
NEEDHAM	26974
NORTH ATTLEBORO	25720
NORTHAMPTON	29064
NORWOOD	27336
PEABODY	46065
PITTSFIELD	48737
PLYMOUTH	43417
RAHDOLPH	28566
REVERE	44308
SALEM	37552
SAUGUS	26060
STOUGHTON	27364
TAUNTON	47119
TEKESBURY	25896
WAKEFIELD	25057
WATERLOO	32616
WELLESLEY	26538
WEST SPRINGFIELD	26636
WESTFIELD	37981
WOBURN	38268

SIZE OF COMMUNITY=10,000 - 25,000 (N=93)

PROJECTED
CENSUS
1990

TOWN

ABINGTON	14158
ACTON	17280
AMESBURY	14717
ASHLAND	12280
ATHOL	10862
AUBURN	14238
BEDFORD	12211
BELCHERTON	10839
BELLINGHAM	14224
BELMONT	24320
BOURNE	17133
BRIDGEWATER	20227
BURLINGTON	22651
CANTON	18419

LIST OF TOWNS & PROJECTED 1990 CENSUS BY SIZE OF COMMUNITY CATEGORY

18-19 THURSDAY, MARCH 15, 1990

SIZE OF COMMUNITY=10,000 - 25,000 (N=93)

PROJECTED
CENSUS
1990

TOWN

CARVER	12039
CLINTON	12435
COUCORD	16401
DAIVERS	23876
DEHAM	22952
DEHHS	15014
DUXBURY	14741
EAST BRIDGEWATER	10604
EAST LONGMEADOW	12833
EAST HAMPTON	17042
EASTON	20755
FAIRHAVEN	15837
FOXBORO	14540
FRANKLIN	20682
GARDNER	18459
GRAFTON	12185
GREENFIELD	17581
HANOVER	12156
HARVARD	13938
HARHICH	10527
HINGHAM	20509
HOLBROOK	10773
HOLDEN	13812
HOLLISTON	12925
HUDSON	17905
IPSHICH	11700
LONGMEADOW	16292
LUDLOW	18769
LYNNFIELD	11298
MANSFIELD	15228
MARBLEHEAD	18549
MARSHFIELD	23463
MEDFIELD	10829
MEDWAY	10048
MIDDLEBORO	18895
MILFORD	24350
HILLMURY	11771
NEHBURYPORT	16816
NORTH ADAMS	16681
NORTH ANDOVER	23924
NORTH READING	11823
NORTHBORO	11378
NORTHBRIDGE	12496
NORTON	14627
OXFORD	12485
PALMER	11900
PEMBROKE	15620
PEPPERELL	10610
READING	22448
ROCKLAND	15483
SANDHICH	14745
SCITUATE	17391

LIST OF TOWNS & PROJECTED 1990 CENSUS BY SIZE OF COMMUNITY CATEGORY

----- SIZE OF COMMUNITY=10,000 - 25,000 (N=93) -----

18.19 THURSDAY, MARCH 15, 1990

TOWN PROJECTED
CENSUS
1990

SEEKONK	13118
SHARON	15068
SHREWSBURY	22684
SOMERSET	17953
SOUTH HADLEY	16747
SOUTHBRIDGE	16398
SPENCER	11753
STONEHAM	22918
SUDBURY	14080
SHAMPSCOTT	12544
SWANSEA	16052
HALEPOLE	20522
HARE	10126
HAREHAM	21906
HAYLAND	12052
HEBSTER	15157
HESTBORO	12954
HESTFORD	15353
HESTON	10646
HESTPORT	14251
HESTWOOD	12099
HILLMAN	13965
HILBRAHAM	12341
HILMINGTON	17458
HINCHESTER	19610
HINTHROP	10712
YARMOUTH	20784

----- SIZE OF COMMUNITY=UNDER 10,000 (N=192) -----

TOWN PROJECTED
CENSUS
1990

ACUSHNET	9222
ADAMS	9947
ALFORD	400
ASHBURNHAM	5433
ASHBY	3000
ASHFIELD	1570
AVON	4710
AYER	6747
BARRE	4491
BECKET	1770
BERKLEY	4334
BERLIN	2235
BERNARDSTON	1830
BLACKSTONE	7461
BLANDFORD	1179
BOLTON	3012
BOXBORO	3053

LIST OF TOWNS & PROJECTED 1990 CENSUS BY SIZE OF COMMUNITY CATEGORY

18.19 THURSDAY, MARCH 15, 1990

SIZE OF COMMUNITY=UNDER 10,000 (N=192)

PROJECTED
CENSUS
1990

TOWN

BOXFORD	6549
BOYLSTON	3548
BREWSTER	7754
BRIMFIELD	2882
BROOKFIELD	2934
BUCKLAND	1930
CARLISLE	4557
CHARLEMONT	1247
CHARLTON	8825
CHATHAM	6557
CHESHIRE	3344
CHESTER	1238
CHESTERFIELD	1354
CHILMARK	693
CLARKSBURG	1762
CONASSET	7289
COLRAIN	1719
CONWAY	1461
CUMINGTON	896
DALTON	6351
DEERFIELD	4827
DIGHTON	5508
DOUGLAS	5057
DOVER	4833
DUDLEY	9005
DUNSTABLE	2269
EAST BROOKFIELD	1767
EASTHAM	4669
EDGARTON	3270
EGREMONT	1311
ERVING	1468
ESSEX	2949
FLORIDA	685
FREETOWN	8359
GAY HEAD	253
GEORGETOWN	5983
GILL	1327
GOOSHEN	792
GOSHOLD	35
GRAINY	5759
GRANVILLE	1379
GREAT BARRINGTON	7435
GROTON	7637
GROVELAND	5023
HADLEY	4305
HALIFAX	6626
HAMILTON	7114
HAMPDEN	4622
HANCOCK	586
HANSON	9466
HARDICK	2312
HATFIELD	3262

LIST OF TOWNS & PROJECTED 1990 CENSUS BY SIZE OF COMMUNITY CATEGORY

18.19 THURSDAY, MARCH 15, 1990

SIZE OF COMMUNITY=UNDER 10,000 (N=192)

TOWN PROJECTED
CENSUS
1990

HAWLEY	433
HEATH	641
HINSDALE	1775
HOLLAND	1820
HOPEDALE	3993
HOPKINTON	9489
HUBBARDSTON	2039
HULL	9875
HUNTINGTON	2019
KINGSTON	9135
LAKEVILLE	8808
LANCASTER	6188
LANESBORO	3142
LEE	5971
LEICESTER	9764
LENOX	6607
LEVERETT	1609
LEYDEN	648
LINCOLN	7954
LITTLETON	7248
LUNEBURO	8913
MANCHESTER	4974
MARION	4387
MASHPEE	6913
MATTAPANSETT	6103
MAYNARD	9974
MENDON	3632
MERRIMAC	4971
MIDDLEFIELD	476
MIDDLETON	5024
MILLIS	7314
MILLVILLE	2263
MONROE	125
MONSON	7669
MONTAGUE	8099
MONTEREY	1022
MONTGOMERY	692
MOUNT WASHINGTON	101
NAHANT	3825
NANTUCKET	6375
NEW ASHFORD	139
NEW BRAINTREE	705
NEW MARLBORO	1409
NEW SALEM	925
NEWBURY	5706
NORFOLK	8531
NORTH BROOKFIELD	4290
NORTHFIELD	2462
NORWELL	9683
OAK BLUFFS	2562
OAKHAM	1487
ORANGE	7663

LIST OF TOWNS & PROJECTED 1990 CENSUS BY SIZE OF COMMUNITY CATEGORY

18.19 THURSDAY, MARCH 15, 1990

SIZE OF COMMUNITY-UNDER 10,000 (N-192)

TOWN PROJECTED
CENSUS
1990

ORLEANS	6605
OTIS	980
PAXTON	3833
PELHAM	1436
PERU	823
PETERSHAM	950
PHILLIPSTON	1100
PLAINFIELD	485
PLAINVILLE	6191
PLYMPTON	2472
PRINCETON	3007
PROVINCETOWN	3490
RAYNHAM	9800
REHOBOTH	9172
RICHMOND	1622
ROCHESTER	4461
ROCKPORT	6661
ROME	415
ROWLEY	4321
ROYALSTON	1133
RUSSELL	1612
RUTLAND	4750
SALISBURY	7960
SAWDISFIELD	831
SAVOY	821
SHEFFIELD	2640
SHELBURNE	2067
SHERBORN	4250
SHIRLEY	5949
SHUTESBURY	1335
SOUTHAMPDEN	4701
SOUTHBORO	6448
SOUTHWICK	7998
STERLING	7260
STOCKBRIDGE	2395
STON	5486
STURBRIDGE	8250
SUNDERLAND	2991
SUTTON	6943
TEMPLETON	6078
TISBURY	3784
TOLLAND	267
TOPSFIELD	5518
TONNSEND	9421
TRURO	1508
TYNGSBORO	8789
TYRINGHAM	386
UPTON	4378
UXBRIDGE	9185
HALES	1653
HARREN	4023
HARNICK	612

LIST OF TOWNS & PROJECTED 1990 CENSUS BY SIZE OF COMMUNITY CATEGORY

18,19 THURSDAY, MARCH 15, 1990

SIZE OF COMMUNITY=UNDER 10,000 (N=192)

TOWN	PROJECTED CENSUS 1990
HASHINGTON	614
HELLFLEET	2575
HENDELL	830
HENHAM	3788
NEST BOYLSTON	5977
NEST BRIDGEWATER	6828
NEST BROOKFIELD	3495
NEST NEWBURY	3413
NEST STOCKBRIDGE	1294
NEST TISBURY	1392
NESTHAMPTON	1505
NESTMINSTER	5578
HHATELY	1388
WILLIAMSBURG	2603
WILLIAMSTON	8006
WINCHENDON	8163
WINDSOR	621
NORTHINGTON	1339
WRENTHAM	9511

APPENDIX B

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SUBSTANCE USE INDICATORS BY TOWN
MEAN PER YEAR

GENERAL SUBSTANCE USE INDICATORS BY TOWN
MEAN, PER YEAR

18-19 THURSDAY, MARCH 15, 1990

TOWN	PROJECTED CENSUS 1990	HOSP PATIENTS PER YEAR 1985-1987	DEATHS PER YEAR 1986-1988	TREAT ADMITS PER YEAR FY86-FY89	WEEKLY SELFHELP PER YEAR 1986-1988	LIQ LICENSE PER YEAR 1986 & 1989	COURT OUI PER YEAR 1986-1988	COURT N° PER YEAR 1986-1989
ABINGTON	14158	32.67	0.33	139.00	7.00	29.33	.	.
ACTION	17280	73.00	1.00	101.75	6.67	16.33	.	.
ACUSHNET	9222	29.00	0.33	99.75	2.33	18.00	.	.
ADAMS	9947	35.67	1.00	153.50	0.00	24.33	.	.
AGAHAM	27351	17.00	1.67	255.75	9.67	47.00	.	.
ALFORD	400	2.33	0.00	4.00	0.00	0.00	.	.
AMESBURY	14717	56.33	4.67	214.25	5.67	25.67	363.67	164.67
AMHERST	33683	2.00	1.33	303.75	11.33	42.67	.	.
ANDOVER	27118	43.67	0.67	177.50	2.67	25.67	.	.
ARLINGTON	42744	179.00	7.67	357.00	4.67	9.00	.	.
ASHBURNHAM	5433	13.33	0.00	52.00	2.00	9.33	.	.
ASHBY	3000	3.00	0.00	27.25	0.00	4.67	.	.
ASHFIELD	1570	3.00	0.00	25.25	0.00	3.00	.	.
ASHLAND	12280	52.00	1.67	110.25	2.33	22.33	.	.
ATHOL	10862	1.00	3.00	234.75	3.00	29.00	.	.
ATTLEBORO	35483	119.67	17.00	604.50	11.33	54.33	854.67	659.00
AUBURN	14238	52.00	0.00	139.75	1.00	28.00	.	.
AVON	4710	13.67	0.00	74.75	1.33	11.00	.	.
AYER	6747	30.33	6.67	107.00	7.33	12.67	579.33	292.33
BARNSTABLE	39931	118.00	40.33	1092.00	27.67	101.00	1312.33	437.67
BARRE	4491	10.33	0.33	37.75	0.67	18.00	.	.
BECKET	1770	1.00	0.00	17.75	0.00	9.33	.	.
BEDFORD	12211	46.67	6.33	108.25	6.00	9.33	.	.
BELCHERTOWN	10839	22.00	2.00	123.75	2.33	15.67	.	.
BELLINGHAM	14224	35.33	0.33	141.50	1.67	27.67	.	.
BELMONT	24320	69.33	3.00	150.50	6.67	0.00	.	.
BERKLEY	4334	2.00	0.33	20.25	0.00	5.67	.	.
BERLIN	2235	6.33	0.33	32.00	1.00	5.33	.	.
BERNHARDSTON	1830	3.00	0.00	26.25	0.00	8.33	.	.
BEVERLY	36126	95.67	19.33	478.00	19.67	49.67	.	.
BILLERICA	38181	88.00	1.33	424.50	6.33	46.00	.	.
BLACKSTONE	7461	10.67	1.00	53.50	0.00	15.33	.	.
BLANDFORD	1179	1.00	0.00	13.75	0.00	1.33	.	.
BOLTON	3012	6.00	0.00	39.75	0.00	4.00	.	.
BOSTON	574220	3024.67	416.33	18701.25	235.00	1079.00	4366.33	7482.00
BOURNE	17133	55.00	7.67	257.50	9.67	43.33	.	.
BOXBORO	3053	11.33	0.00	59.50	0.00	3.33	.	.
BOXFORD	6549	9.00	0.00	43.00	0.00	1.00	.	.
BOYLSTON	3548	11.67	0.33	35.50	0.33	5.33	.	.
BRAINTREE	34690	103.00	0.67	338.00	15.33	56.67	.	.
BREWSTER	7754	13.00	2.67	106.25	1.33	17.00	.	.
BRIDGEWATER	20227	57.00	1.67	271.25	5.00	26.67	.	.
BRIEFIELD	2882	7.00	0.00	34.25	2.33	5.00	.	.
BROCKTON	96961	406.00	47.00	2240.75	33.67	121.00	949.00	808.67
BROOKFIELD	2934	15.33	0.00	53.50	0.00	5.00	.	.
BROOKLINE	52321	111.00	5.00	328.00	14.33	72.00	178.67	103.00
BUCKLAND	1930	0.67	0.00	21.50	0.67	5.33	.	.
BURLINGTON	22651	48.67	14.00	131.50	3.67	24.00	624.00	466.67
CAMBRIDGE	88205	554.33	46.67	2012.50	37.67	231.00	.	.
CANTON	18419	66.67	1.00	136.25	9.00	28.67	.	.
CARLISLE	4557	4.67	0.00	17.50	0.00	0.00	.	.
CARVER	12039	19.33	0.00	127.75	4.00	9.33	.	.

GENERAL SUBSTANCE USE INDICATORS BY TOWN

18-19 THURSDAY, MARCH 15, 1990

TOWN	PROJECTED CENSUS 1990	HOSP PATIENTS PER YEAR 1985-1987	DEATHS PER YEAR 1986-1988	TREAT ADMITS PER YEAR FY86-FY89	WEEKLY SELFHELP PER YEAR 1986-1988	LIQ LICENSE PER YEAR 1986 & 1989	COURT OUI PER YEAR 1986-1988	COURT NAF PER YEAR 1986-1988
CHARLEMONT	1247	1.00	0.00	21.50	0.67	10.67	.	.
CHARLTON	8825	23.00	0.33	103.00	1.33	17.33	.	.
CHATHAM	6557	14.33	1.00	98.75	1.00	22.33	.	.
CHILMARK	31706	49.33	1.33	199.50	10.67	30.67	1127.33	1294.67
CHILMARK	25725	149.00	6.00	496.25	15.00	57.00	.	.
CHILMARK	3344	7.33	0.33	50.75	0.00	10.00	.	.
CHILMARK	1238	4.33	0.00	18.25	0.00	5.00	.	.
CHILMARK	1354	0.67	0.00	26.00	0.00	1.00	.	.
CHILMARK	56736	95.00	3.00	909.50	4.33	104.00	266.33	233.00
CHILMARK	693	6.67	0.00	7.75	0.33	0.00	.	.
CHILMARK	1762	1.00	0.00	14.50	0.00	4.00	.	.
CHILMARK	12435	86.67	2.67	238.75	11.33	36.00	392.67	322.33
CHILMARK	7289	18.33	0.00	56.25	4.00	14.67	.	.
CHILMARK	1719	1.67	0.33	29.25	0.00	5.00	.	.
CHILMARK	16401	56.67	13.67	98.50	8.00	21.00	755.00	312.00
CHILMARK	1461	2.33	0.00	14.00	0.67	4.33	.	.
CHILMARK	896	1.00	0.00	4.75	0.67	1.00	.	.
CHILMARK	6351	17.67	0.00	84.50	0.67	17.67	.	.
CHILMARK	23876	78.33	10.67	242.75	10.33	39.67	.	.
CHILMARK	26135	46.00	1.33	171.50	5.33	44.67	.	.
CHILMARK	22952	93.33	1.67	236.00	7.00	38.67	665.00	414.67
CHILMARK	4827	8.00	0.33	81.75	0.33	15.67	.	.
CHILMARK	15014	35.33	3.33	269.00	5.33	31.00	.	.
CHILMARK	5508	9.00	0.00	27.50	0.67	9.00	.	.
CHILMARK	5057	10.33	0.00	49.50	0.00	4.67	.	.
CHILMARK	4833	11.67	0.33	23.75	3.00	3.00	.	.
CHILMARK	25406	44.33	1.67	225.50	1.67	39.33	.	.
CHILMARK	9005	1.00	0.00	101.00	1.33	18.67	582.00	369.67
CHILMARK	2269	2.00	0.00	11.00	0.00	0.00	.	.
CHILMARK	14741	23.00	1.33	114.50	3.33	12.33	.	.
CHILMARK	10604	23.67	1.33	74.50	3.33	20.33	.	.
CHILMARK	1767	8.00	0.33	21.00	0.67	7.00	.	.
CHILMARK	12833	5.33	0.33	92.50	1.67	17.00	.	.
CHILMARK	4669	7.00	0.33	71.25	2.00	11.00	.	.
CHILMARK	17042	40.33	0.67	305.00	3.00	34.33	.	.
CHILMARK	20755	39.67	0.00	119.50	1.67	30.33	.	.
CHILMARK	3270	45.00	0.33	82.25	12.67	11.33	202.00	129.67
CHILMARK	1311	1.33	0.33	14.50	0.67	11.33	.	.
CHILMARK	1468	0.67	0.00	14.50	0.00	8.00	.	.
CHILMARK	2949	3.67	0.33	37.50	1.00	18.33	.	.
CHILMARK	35932	171.67	15.67	408.25	6.33	44.33	.	.
CHILMARK	15837	45.67	2.67	184.25	3.33	37.67	.	.
CHILMARK	89266	291.33	45.00	1914.00	13.67	158.00	816.00	918.00
CHILMARK	26572	91.00	15.67	848.25	25.67	66.00	.	.
CHILMARK	39219	163.67	19.33	1046.00	5.33	80.33	290.00	144.33
CHILMARK	685	1.00	0.00	9.00	0.00	3.33	.	.
CHILMARK	14540	62.00	0.33	149.75	4.33	14.00	.	.
CHILMARK	63611	343.67	24.00	1349.25	29.00	91.33	943.67	863.00
CHILMARK	20682	62.00	0.33	159.25	3.33	34.00	.	.
CHILMARK	8359	10.00	0.00	47.25	0.00	9.33	.	.
CHILMARK	18459	99.67	13.33	514.25	7.00	34.67	265.00	155.00
CHILMARK	253	1.00	0.00	5.50	0.33	0.00	.	.

GENERAL SUBSTANCE USE INDICATORS BY TOWN

18-19 THURSDAY, MARCH 15, 1990

TOWN	PROJECTED CENSUS 1990	HOSP PATIENTS PER YEAR 1985-1987	DEATHS PER YEAR 1986-1988	TREAT ADMITS PER YEAR FY86-FY89	WEEKLY SELFHELP PER YEAR 1986-1988	LIQ LICENSE PER YEAR 1986 & 1989	COURT OUI PER YEAR 1986-1988	COURT MAR. PER YEAR 1986-1988
GEORGETOWN	5983	6.33	0.00	45.25	1.00	7.67	.	.
GILL	1327	1.00	0.00	32.25	0.00	4.67	.	.
GLOUCESTER	28144	148.67	11.67	548.75	17.33	58.00	279.00	420.67
OOSHEN	792	0.67	0.00	8.25	0.00	3.00	.	.
OOSNOLD	35	0.00	0.00	2.50	0.33	0.00	.	.
GRAFTON	12185	33.00	0.67	127.00	1.00	22.33	.	.
GRANDY	5759	8.00	1.00	73.50	0.67	9.00	.	.
GRAINVILLE	1379	1.00	0.00	9.75	1.00	2.00	.	.
GREAT BARRINGTON	7435	5.67	3.33	99.50	2.67	39.33	226.67	93.67
GREENFIELD	17581	1.67	8.67	1175.75	16.00	39.00	327.00	159.00
GROTON	7637	19.00	0.33	68.25	0.33	9.33	.	.
GROVELAND	5023	8.67	0.00	44.00	1.67	7.33	.	.
HADLEY	4305	6.33	0.33	45.50	0.00	24.00	.	.
HALIFAX	6626	17.00	0.00	83.25	1.33	10.33	.	.
HAMILTON	7114	4.67	0.00	60.75	3.00	8.33	.	.
HAMPDEN	4622	5.67	0.67	50.00	0.67	6.33	.	.
HANCOCK	586	1.00	0.00	3.25	0.00	5.00	.	.
HANOVER	12156	14.33	0.67	67.00	5.00	24.67	.	.
HANSON	9466	16.67	0.00	87.50	1.00	15.00	.	.
HARDWICK	2312	8.00	0.33	16.50	0.00	10.67	.	.
HARVARD	13938	7.33	2.00	24.50	1.00	0.00	.	.
HARWICH	10527	27.67	0.67	129.75	6.00	21.00	.	.
HATFIELD	3262	7.67	0.00	37.75	0.00	13.33	.	.
HAVERHILL	48999	137.33	18.00	666.75	15.00	82.00	435.67	266.00
HAWLEY	433	2.67	0.00	4.25	0.00	0.00	.	.
HEATH	641	0.00	0.00	11.75	0.00	1.00	.	.
HINGHAM	20509	57.00	1.33	149.75	9.33	28.67	697.33	350.67
HINSDALE	1775	1.00	0.00	27.00	1.33	5.67	.	.
HOLBROOK	10773	32.67	0.33	115.00	1.00	13.00	.	.
HOLDEN	13812	28.67	2.00	62.50	1.00	11.00	.	.
HOLLAND	1820	1.00	0.33	23.25	0.33	6.67	.	.
HOLLISTON	12925	34.33	0.00	104.75	4.00	9.33	.	.
HOLYOKE	41486	202.67	38.00	1347.00	15.33	95.33	273.00	629.67
HOPEDALE	3993	14.33	0.33	45.25	3.00	1.67	.	.
HOPKINTON	9489	33.00	1.33	77.75	1.33	11.67	.	.
HUBBARDSTON	2039	4.67	0.33	39.50	0.00	6.00	.	.
HUDSON	17905	82.33	1.00	178.00	1.67	32.33	.	.
HULL	9875	45.67	0.33	226.00	2.00	16.00	.	.
HUNTINGTON	2019	4.33	0.00	33.50	0.67	7.67	.	.
IPSWICH	11700	14.00	1.33	131.75	4.33	30.67	60.00	33.67
KINGSTON	9135	17.67	0.67	115.75	1.00	21.67	.	.
LAKEVILLE	8808	9.67	1.33	82.25	2.00	14.00	.	.
LANCASTER	6188	15.67	0.00	76.00	0.00	0.00	.	.
LANESBORO	3142	15.33	0.00	44.00	0.00	7.67	.	.
LAURENCE	62565	303.33	34.00	1404.75	16.67	119.67	1234.67	1256.67
LEE	5971	41.67	3.33	127.75	2.33	25.33	.	.
LEICESTER	9764	30.33	0.33	93.75	1.00	19.33	.	.
LENOX	6607	25.33	0.67	73.00	1.33	33.67	.	.
LEOMINSTER	35227	94.33	11.00	721.50	15.33	62.00	396.67	200.33
LEVERETT	1609	2.67	0.00	12.00	0.00	1.00	.	.
LEXINGTON	27709	63.67	1.67	118.00	5.00	18.00	.	.
LEYDEN	648	52.00	0.00	9.00	0.00	1.00	.	.

GENERAL SUBSTANCE USE INDICATORS BY TOWN

18.19 THURSDAY, MARCH 15, 1990

TOWN	PROJECTED CENSUS 1990	HOSP PATIENTS PER YEAR 1985-1987	DEATHS PER YEAR 1986-1988	TREAT ADMITS PER YEAR FY86-FY89	WEEKLY SELFHELP PER YEAR 1986-1988	LIQ LICENSE PER YEAR 1986 & 1989	COURT OUI PER YEAR 1986-1988	COURT MAR PER YEAR 1986-1988
LINCOLN	7954	14.67	0.67	22.50	3.00	0.00	.	.
LITTLETON	7248	35.00	0.67	53.00	2.33	5.33	.	.
LONGMEADOW	16292	10.00	1.33	76.50	4.00	13.67	.	.
LOVELL	94024	369.33	62.67	2103.25	24.00	138.33	1419.00	1918.00
LUDLOW	18769	23.33	4.33	161.75	1.33	35.67	.	.
LUKEBURG	8913	15.00	1.00	78.50	0.33	15.67	.	.
LYNN	78163	526.67	39.00	1653.00	35.00	140.33	784.67	763.00
LYNNFIELD	11298	13.33	0.67	75.00	1.00	10.00	.	.
MALDEN	53243	280.00	11.67	694.50	17.67	69.00	636.33	456.67
MANCHESTER	4974	7.67	0.67	56.00	3.67	15.67	.	.
MANSFIELD	15228	43.00	0.33	153.00	2.33	22.00	.	.
MARBLEHEAD	18549	77.00	0.33	166.75	19.33	31.00	.	.
MARION	4387	4.00	0.00	45.50	6.33	11.67	.	.
MARLBORO	31044	184.00	11.67	479.00	18.00	62.67	284.67	226.67
MARSHFIELD	23463	49.33	2.00	253.50	9.33	33.67	.	.
MASHPEE	6913	17.00	1.67	143.50	4.00	17.33	.	.
MATTAPOISETT	9974	12.33	0.00	51.00	1.33	13.67	.	.
MATTAPAN	10829	84.33	1.00	114.75	9.67	23.00	.	.
MEDFIELD	56296	27.33	1.00	100.25	5.33	8.00	.	.
MEDFORD	10048	235.33	9.33	489.75	11.33	28.67	.	.
MEDWAY	27973	34.67	0.00	67.50	2.00	11.67	.	.
MELROSE	3632	99.33	13.33	221.75	7.33	8.00	.	.
MENDON	4971	8.33	0.00	37.75	0.67	10.00	.	.
MERRIMAC	40716	11.67	0.33	51.50	0.67	6.00	.	.
METHUEN	18895	89.00	17.33	362.75	7.00	55.33	.	.
MIDDLEBORO	476	55.33	3.33	242.75	6.00	28.00	.	.
MIDDLEFIELD	5024	0.00	0.00	4.00	0.00	1.00	.	.
MIDDLETON	24350	7.33	0.00	52.00	6.00	19.00	403.00	272.33
MILFORD	11771	103.00	10.33	311.50	4.33	45.00	.	.
MILLBURY	7314	1.33	1.33	137.75	1.00	20.33	.	.
MILLIS	2263	42.33	0.00	57.25	1.00	10.67	.	.
MILLVILLE	25354	4.67	0.00	13.25	0.00	6.00	.	.
MILTON	108.67	108.67	12.67	162.00	5.67	5.00	.	.
MINOR	125	0.33	0.00	7.25	0.00	1.33	.	.
MONROE	7669	13.67	0.33	56.75	0.33	15.67	.	.
MONSIEUR	8099	37.00	5.67	238.75	1.67	20.67	.	.
MONTEREY	1022	3.00	0.00	9.00	0.00	1.00	.	.
MONTEREY	692	1.00	0.00	8.50	0.00	0.00	.	.
MONTEWASHINGTON	101	3.33	0.00	2.00	0.00	0.00	.	.
NAHAHAT	3825	9.67	0.33	33.25	1.00	8.00	.	.
NAHANT	6375	42.67	1.67	143.00	11.00	27.67	90.67	87.33
NAHANT	30147	138.00	15.33	309.25	5.00	19.00	219.67	106.33
NEEDHAM	26974	84.33	5.33	117.50	8.67	9.33	.	.
NEEDHAM	139	1.00	0.00	6.25	0.00	5.67	.	.
NEEDHAM	96566	459.33	53.00	1926.25	21.67	187.67	713.33	2092.67
NEEDHAM	705	0.67	0.00	7.75	0.00	1.67	.	.
NEEDHAM	1409	13.67	0.33	6.50	0.00	6.67	.	.
NEEDHAM	925	0.67	0.00	10.	0.00	1.33	.	.
NEEDHAM	5706	6.67	0.00	43.50	0.67	9.67	.	.
NEEDHAM	16816	1.00	10.00	276.25	12.67	39.67	548.67	255.33
NEEDHAM	81219	207.67	16.33	452.00	26.67	100.00	267.67	97.00
NORFOLK	8531	21.00	2.67	64.25	11.67	7.00	.	.

GENERAL SUBSTANCE USE INDICATORS BY TOWN

18.19 THURSDAY, MARCH 15, 1990

TOWN	PROJECTED CENSUS 1990	HOSP PATIENTS PER YEAR 1985-1987	DEATHS PER YEAR 1986-1988	TREAT ADMITS PER YEAR FY86-FY89	WEEKLY SELFHELP PER YEAR 1986-1988	LIQ LICENSE PER YEAR 1986 & 1989	COURT OUI PER YEAR 1986-1988	COURT NAR PER YEAR 1986-1988
NORTH ADAMS	16681	85.67	20.00	399.75	0.00	42.33	236.00	75.67
NORTH ANDOVER	23924	42.33	0.67	156.00	5.00	23.33	.	.
NORTH ATTLEBORO	25720	73.33	0.33	216.75	3.00	27.00	.	.
NORTH BROOKFIELD	4290	28.67	0.00	50.25	0.00	15.33	.	.
NORTH READING	11823	30.67	0.00	77.00	5.00	16.67	.	.
NORTHAMPTON	29064	3.00	25.33	677.50	10.67	67.00	684.67	325.33
NORTHBORO	11378	34.67	0.33	107.50	2.00	21.33	.	.
NORTHBRIDGE	12496	41.33	2.67	126.25	2.67	22.67	.	.
NORTHFIELD	2462	2.00	0.00	34.75	0.67	3.33	.	.
NORTON	14627	42.67	1.33	158.25	3.67	28.67	.	.
NORHELL	9683	14.00	0.00	58.25	4.00	14.00	.	.
NORHOOD	27336	152.00	13.67	303.50	6.67	42.67	.	.
OAK BLUFFS	2562	45.00	2.33	44.75	6.00	10.67	.	.
OAKHAM	1487	5.33	0.00	14.50	0.00	2.33	.	.
ORANGE	7663	1.00	0.67	167.25	2.00	22.67	183.67	107.00
ORLEANS	6605	19.67	0.00	102.75	9.67	30.00	598.00	338.67
OTIS	980	2.67	0.33	20.00	0.33	8.33	.	.
OXFORD	12485	66.00	0.33	126.25	1.00	23.67	.	.
PALMER	11900	56.33	3.33	170.25	2.67	33.00	385.67	126.67
PAXTON	3833	7.33	0.00	21.50	0.00	7.67	610.67	225.67
PEABODY	46065	177.33	6.33	520.75	12.33	72.33	.	.
PELHAM	1436	26.00	0.00	14.50	0.00	3.00	.	.
PEMBROKE	15620	30.00	0.67	160.00	2.00	27.00	.	.
PEPPERELL	10610	20.00	0.67	80.25	1.00	5.00	.	.
PETER	823	7.00	0.00	8.50	0.00	0.67	.	.
PETERSHAM	950	1.33	0.00	13.75	0.00	6.67	.	.
PHILLIPSTON	1100	63.00	0.00	13.50	0.00	4.67	.	.
PITTSFIELD	48737	255.33	25.67	1486.00	5.67	104.67	399.00	234.67
PLAINFIELD	485	2.67	0.00	17.50	0.00	4.67	.	.
PLAINVILLE	6191	25.00	0.33	64.25	1.67	18.33	.	.
PLYMOUTH	43417	102.33	13.67	772.50	25.33	62.00	689.33	326.33
PLYMPTON	2472	2.00	0.00	41.25	2.00	2.00	.	.
PRINCETON	3007	4.67	0.00	15.75	1.00	7.00	.	.
PROVINCETOWN	3490	10.00	1.00	80.25	10.67	30.33	.	.
QUINCY	81296	402.33	30.33	1589.00	46.67	117.00	1500.00	691.00
RANDOLPH	28566	98.67	1.67	247.00	7.67	34.00	.	.
RAYNHAM	9800	17.00	0.33	76.75	2.67	23.67	.	.
READING	22448	55.33	0.33	147.25	1.33	10.67	.	.
REHOBOTH	9172	7.67	0.33	38.50	0.00	16.00	.	.
REVERE	44308	209.67	5.00	646.00	6.67	68.67	.	.
RICHMOND	1622	2.33	0.00	16.50	0.00	0.00	.	.
ROCHESTER	4461	4.33	0.33	28.25	0.67	3.67	.	.
ROCKLAND	15483	37.00	1.33	160.75	6.33	24.33	.	.
ROCKPORT	6661	16.67	0.33	55.75	3.00	0.00	.	.
ROHE	415	0.67	0.00	3.75	0.00	0.00	.	.
ROHLEY	4321	11.00	0.00	40.50	2.00	10.00	.	.
ROYALSTON	1133	2.67	0.33	9.25	0.00	3.00	.	.
RUSSELL	1612	1.67	0.00	16.25	0.00	7.33	.	.
RUTLAND	4750	18.00	0.67	43.75	0.33	4.00	.	.
SALEM	37552	233.33	28.00	641.50	16.00	77.33	860.00	391.67
SALISBURY	7960	105.00	0.67	125.75	2.00	20.67	.	.
SANDISFIELD	831	0.67	0.33	12.75	0.00	5.00	.	.

GENERAL SUBSTANCE USE INDICATORS BY TOWN
MEAN PER YEAR

18.19 THURSDAY, MARCH 15, 1990

TOWN	PROJECTED CENSUS 1990	HOSP PATIENTS PER YEAR 1985-1987	DEATHS PER YEAR 1986-1988	TREAT ADMITS PER YEAR FY86-FY89	WEEKLY SELFHELP PER YEAR 1986-1988	LIQ LICENSE PER YEAR 1986 & 1989	COURT OUI PER YEAR 1986-1988	COURT M' PER YEAR 1986-1989
SAIDMICH	14745	21.33	0.33	173.75	3.67	29.00	.	.
SAUGUS	26060	61.67	2.67	247.00	3.00	38.33	.	.
SAVOY	821	2.33	0.00	11.25	0.00	2.00	.	.
SCITUATE	17391	50.67	0.67	150.75	11.33	24.33	.	.
SEEKONK	13118	4.33	1.33	46.50	2.00	26.33	.	.
SHARON	15068	26.00	1.00	73.25	4.00	2.00	.	.
SHEFFIELD	2640	7.33	1.33	30.25	0.67	9.67	.	.
SHELBURNE	2067	4.00	0.33	46.75	1.00	8.33	.	.
SHERBORN	4250	13.00	0.33	25.75	1.33	2.33	.	.
SHIRLEY	5949	20.00	1.00	92.00	2.00	9.67	.	.
SHREHSBURY	22684	74.33	1.00	209.25	1.33	36.33	.	.
SHUTESBURY	1335	0.33	0.00	18.50	0.00	1.00	.	.
SOMERSET	17953	25.00	0.33	162.75	4.67	23.33	719.67	489.33
SOMERVILLE	71300	444.33	18.33	1179.75	11.67	100.33	.	.
SOUTH HADLEY	16747	27.00	1.33	181.00	4.33	30.67	.	.
SOUTH HAMPTON	4701	5.33	0.00	36.75	0.00	11.00	.	.
SOUTHBORO	6448	19.67	0.33	47.25	1.67	14.67	.	.
SOUTHBRIDGE	16398	106.00	10.00	327.00	1.00	43.33	.	.
SOUTHWICK	7998	16.00	0.67	120.25	0.67	22.00	.	.
SPENCER	11753	35.67	0.33	135.00	1.00	23.33	320.67	158.67
SPRINGFLD	145380	221.00	87.00	5324.25	41.00	226.67	1464.67	2227.33
STERLING	7260	21.33	0.33	59.25	0.33	10.00	.	.
STOCKBRIDGE	2395	5.67	0.33	36.00	1.67	11.33	.	.
STONEHAM	22918	63.67	11.00	169.00	8.67	18.67	519.33	251.00
STOUGHTON	27364	83.67	10.67	266.50	6.67	45.67	.	.
STOW	5486	13.00	0.00	36.75	2.00	5.67	.	.
STURBRIDGE	8250	14.00	1.33	75.00	1.00	30.33	.	.
SUDBURY	14080	37.00	1.00	79.25	3.33	15.67	.	.
SUNDERLAND	2991	6.00	0.33	38.75	0.67	11.00	.	.
SUTTON	6943	66.00	0.00	44.50	0.67	11.33	.	.
SHAMPSCOTT	12544	26.67	0.33	83.50	5.67	16.33	.	.
SHAWNEE	16052	23.67	1.33	132.00	1.67	28.00	905.33	389.00
TAUNTON	47119	171.00	13.67	734.50	17.00	79.33	.	.
TEMPLETON	6078	23.33	0.67	82.50	0.00	17.67	.	.
TEKSBURY	25896	37.00	6.67	248.75	3.00	31.33	.	.
THESBURY	3784	49.33	0.00	39.50	4.00	0.00	.	.
TOLLAND	267	1.67	0.00	2.00	0.00	0.67	.	.
TOPSFIELD	5518	10.67	0.33	38.25	2.00	0.00	.	.
TOHUSEND	9421	19.67	0.33	65.75	1.00	8.33	.	.
TRURO	1508	1.33	0.33	27.50	3.00	4.33	.	.
TYNGSBORO	8789	12.33	0.00	85.25	0.00	20.33	.	.
TYRINGHAM	386	1.67	0.33	11.25	0.00	0.00	.	.
UPTON	4378	17.00	0.33	42.25	1.67	8.33	.	.
UXBRIDGE	9185	39.33	0.67	123.75	1.67	18.67	422.33	199.00
WAKEFIELD	25057	72.67	1.33	235.00	5.67	17.00	.	.
WALTON	1653	2.67	0.00	21.75	0.00	3.00	.	.
WALPOLE	20522	74.33	0.67	197.25	3.00	35.67	602.33	468.67
WALTHAM	56825	280.33	23.67	1139.25	16.33	74.33	114.33	55.00
WARE	10126	28.33	4.67	134.50	3.33	22.67	613.33	307.00
WAREHAM	21906	62.67	9.33	413.75	6.33	40.67	.	.
WARREN	4023	18.00	0.33	66.75	0.00	11.67	.	.
WARRICK	612	34.33	0.00	21.75	0.00	1.67	.	.

GENERAL SUBSTANCE USE INDICATORS BY TOWN
MEAN PER YEAR

18.19 THURSDAY, MARCH 15, 1990

TOWN	PROJECTED CENSUS 1990	HOSP PATIENTS PER YEAR 1985-1987	DEATHS PER YEAR 1986-1988	TREAT ADMITS PER YEAR FY86-FY89	WEEKLY SELFHELP PER YEAR 1986-1988	LIQ LICENSE PER YEAR 1986 & 1989	COURT OUI PER YEAR 1986-1988	COURT WAR PER YEAR 1986-1988
HAASHINGTON	614	4.67	0.00	7.50	0.00	2.67	.	.
HATERTOWN	32616	122.33	3.67	314.25	11.00	54.67	.	.
HAYLAND	12052	30.67	0.33	58.25	3.00	14.33	.	.
HEBSTER	15157	123.33	4.67	202.25	3.33	47.67	.	.
HELLESLEY	26538	57.67	3.00	101.50	4.67	16.00	.	.
HELLFLEET	2575	9.00	0.33	50.75	0.33	7.00	.	.
HEIDELL	830	3.67	0.00	17.00	0.00	1.00	.	.
HEIHAM	3788	6.67	0.33	21.25	0.33	0.00	.	.
HESI BOYLSTON	5977	15.33	0.00	45.75	0.00	12.00	.	.
HESI BROOKFIELD	6828	12.67	0.33	51.00	1.00	13.33	.	.
HESI BROOKFIELD	3495	9.67	1.33	30.75	1.33	9.67	.	.
HESI NEHBURY	3413	3.00	0.33	23.25	0.00	2.67	.	.
HESI SPRINGFIELD	26636	42.33	2.33	458.75	6.67	52.00	.	.
HESI STOCKBRIDGE	1294	4.33	0.00	22.50	0.33	5.33	.	.
HESI TISBURY	1392	5.00	0.33	10.75	0.00	0.00	.	.
HESIBORO	12954	55.33	2.00	124.50	8.00	29.67	616.33	322.00
HESIFIELD	37981	103.67	9.33	717.25	8.00	52.67	368.33	124.67
HESIFORD	15353	25.33	0.33	101.25	2.67	27.00	.	.
HESITHAMPTON	1505	68.67	0.00	10.25	0.00	0.00	.	.
HESIMINSTER	5578	14.33	0.33	45.50	0.67	10.33	.	.
HESTON	10646	13.33	1.67	29.50	4.00	0.00	.	.
HESTPORT	14251	24.00	0.00	119.00	3.33	26.33	.	.
HESWOOD	12099	38.67	0.33	73.25	5.33	0.00	.	.
HEYMOUTH	54320	205.00	37.33	619.00	15.67	62.67	.	39.67
HIATELY	1388	2.00	0.67	11.75	0.00	7.00	60.33	.
HIITHAM	13965	26.67	0.33	134.00	1.00	18.00	.	.
HILBRAHAM	12341	14.67	0.00	93.25	6.33	24.00	.	.
HILLIAMSBURG	2603	4.33	0.00	36.50	1.00	12.33	.	.
HILLIAMSTOWN	8006	20.67	0.67	48.50	0.00	24.67	.	.
HILMINGTON	17458	44.67	0.67	134.25	3.67	12.00	.	.
HINCENDON	8163	31.33	1.33	133.00	1.00	22.67	.	.
HIICHESTER	19610	65.33	11.33	123.25	5.00	9.67	.	.
HIINDSOR	621	2.00	0.00	13.25	0.33	2.00	.	.
HINTHROP	18712	54.00	4.00	203.50	4.33	19.33	.	.
HOBURN	38268	181.33	13.67	342.75	6.67	34.00	914.67	462.67
HORCESTER	154708	1340.67	108.00	4110.75	35.00	280.00	1362.00	1707.33
HORTHINGTON	1339	2.33	0.33	119.50	0.00	5.33	.	.
HREITHAM	9511	22.00	0.67	119.00	3.00	13.33	774.00	509.00
YARMOUTH	20784	59.33	2.67	386.00	5.67	51.67	.	.
*****	*****	*****	*****	*****	*****	*****	*****	*****
5891165	21642.36	1939.49	96495.00	1802.69	9732.36	40755.35	35809.05	

APPENDIX C

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SUBSTANCE USE INDICATORS BY TOWN
MEAN RATE PER 100,000 POPULATION PER YEAR

GENERAL SUBSTANCE USE INDICATORS BY TOWN
MEAN RATE PER 100,000 PER YEAR

18.19 THURSDAY, MARCH 15, 1990

TOWN	PROJECTED CENSUS 1990	HOSP PATIENTS RATE PER YEAR 1985-1987	DEATHS RATE PER YEAR 1986-1988	TREAT ADMITS RATE PER YEAR FY86-FY89	WEEKLY SELFHELP RATE PER YEAR 1986-1988	LIQ LICENSE RATE PER YEAR 1986 & 1989	COURT DUI RATE PER YEAR 1986-1988	COURT NARC RATE PER YEAR 1986-1988
ABINGTON	14158	232	2	986	50	208	.	.
ACTON	17280	422	6	588	39	94	.	.
ACUSHNET	9222	316	4	1087	25	196	.	.
ADAMS	9947	357	10	1537	0	244	.	.
AGAHAM	27351	62	6	939	35	173	.	.
ALFORD	600	588	0	1008	0	0	.	.
AMESBURY	14717	385	32	1463	39	175	2484	1125
ANIERST	33683	6	4	903	34	127	.	.
ANDOVER	27118	161	2	656	10	95	.	.
ARLINGTON	42744	413	18	825	11	21	.	.
ASHBURNHAM	5433	252	0	982	38	176	.	.
ASHBY	3000	102	0	929	0	159	.	.
ASHFIELD	1570	192	0	1619	0	192	.	.
ASHLAND	12280	434	14	921	19	187	.	.
ATHOL	10862	9	28	2165	28	268	.	.
ATTLEBORO	35483	338	48	1710	32	154	2417	1864
AUBURN	14238	364	0	977	7	196	.	.
AVON	6710	288	0	1576	28	232	.	.
AYER	6747	448	98	1500	108	187	8552	4316
BARIHSTABLE	39931	302	103	2798	71	259	3362	1121
BARRE	4491	232	7	848	15	404	.	.
BECKET	1770	58	0	1028	0	541	.	.
BEDFORD	12211	380	52	881	49	76	.	.
BELCHERTOWN	10839	208	19	1169	22	148	.	.
BELLINGHAM	14224	248	2	994	12	194	.	.
BELMONT	24320	283	12	614	27	0	.	.
BERKLEY	4334	48	8	485	0	136	.	.
BERLIN	2235	283	15	1431	45	239	.	.
BERNARDSTON	1830	165	0	1440	0	457	.	.
BEVERLY	36126	264	53	1318	54	137	.	.
BILLERICA	38181	231	4	1116	17	121	.	.
BLACKSTONE	7461	145	14	726	0	208	.	.
BLANDFORD	1179	86	0	1178	0	114	.	.
BOLTON	3012	203	0	1342	0	135	.	.
BOSTON	574220	528	72	3263	41	188	762	1306
BOURNE	17133	327	46	1532	58	258	.	.
BOXBORO	3053	371	0	1946	0	109	.	.
BOXFORD	6549	140	0	669	0	16	.	.
BOYLSTON	3548	329	9	1003	9	151	.	.
BRAINTREE	34690	296	2	970	44	163	.	.
BREHSTER	7754	173	36	1416	18	227	.	.
BRIDGEWATER	20227	286	8	1361	25	134	.	.
BRIMFIELD	2882	248	0	1212	83	177	.	.
BROCKTON	96961	419	49	2315	35	125	981	836
BROOKFIELD	2934	532	0	1856	0	173	.	.
BROOKLINE	52321	211	10	624	27	137	340	196
BUCKLAND	1930	35	0	1117	35	277	.	.
BURLINGTON	22651	214	62	578	16	106	.	.
CAMBRIDGE	88205	623	52	2263	42	260	702	525
CANTON	18419	362	5	741	49	156	.	.
CARLISLE	4557	105	0	395	0	0	.	.
CARVER	12039	168	0	1108	35	81	.	.

GENERAL SUBSTANCE USE INDICATORS BY TOWN
MEAN RATE PER 100,000 PER YEAR

18.19 THURSDAY, MARCH 15, 1990

TOWN	PROJECTED HOSP PATIENTS DEATHS CENSUS 1990	1985-1987	1986-1988	TREAT ADMITS FY86-FY89	WEEKLY SELFHELP RATE PER YEAR	LIQ LICENSE RATE PER YEAR	COURT DUI RATE PER YEAR	COURT HARC RATE PER YEAR
CHARLEMONT	1247	81	0	1741	54	864	.	.
CHARLTON	8825	267	4	1196	15	201	.	.
CHATHAM	6557	220	15	1517	15	343	.	.
CHELMSEA	31706	156	4	630	34	97	.	.
CHELSEA	25725	580	23	1931	58	222	4387	5038
CHESHIRE	3344	221	10	1527	0	301	.	.
CHESTER	1238	353	0	1487	0	407	.	.
CHESTERFIELD	1354	50	0	1968	0	76	.	.
CHICOPEE	56736	168	5	1608	8	184	471	412
CHILMARK	693	994	0	1155	50	0	.	.
CLARKSBURG	1762	56	0	817	0	225	.	.
CLINTON	12435	695	21	1915	91	289	3149	2585
CONASSET	7289	252	0	773	55	202	.	.
COLRAIN	1719	98	20	1718	0	294	.	.
CONCORD	16401	346	83	601	49	128	4605	1903
CONWAY	1461	163	0	976	46	302	.	.
CUMMINGTON	896	115	0	545	76	115	.	.
DALTON	6351	276	0	1321	10	276	.	.
DAIVERS	23876	328	45	1016	43	166	.	.
DARTMOUTH	26135	177	5	662	21	172	.	.
DEDHAM	22952	403	7	1018	30	167	2868	1789
DEERFIELD	4827	167	7	1705	7	327	.	.
DENNIS	15014	240	23	1824	36	210	.	.
DIGHTON	5508	164	0	501	12	164	.	.
DOUGLAS	5057	210	0	1005	0	95	.	.
DOVER	4833	242	7	493	62	62	.	.
DRACUT	25406	177	7	902	7	157	.	.
DUDLEY	9005	11	0	1125	15	208	6485	4119
DUNSTABLE	2269	90	0	497	0	0	.	.
DUXBURY	14741	159	9	793	23	85	.	.
EAST BRIDGEWATER	10604	225	13	707	32	193	.	.
EAST BROOKFIELD	1767	448	19	1175	37	392	.	.
EAST LONGMEADOW	12833	42	3	720	13	132	.	.
EASTHAM	4669	154	7	1567	44	242	.	.
EASTHAMPTON	17042	239	4	1805	18	203	.	.
EASTON	20755	195	0	587	8	149	.	.
EDGARTOWN	3270	1421	11	2598	400	358	6380	4096
EGREMONT	1311	102	25	1107	51	865	.	.
ERVINO	1468	46	0	999	0	551	.	.
ESSEX	2949	124	11	1269	34	621	.	.
EVERETT	35932	476	43	1132	18	123	.	.
FAIRHAVEN	15837	289	17	1164	21	238	.	.
FALL RIVER	89266	325	50	2136	15	176	911	1025
FALMOUTH	26572	346	60	3227	98	251	.	.
FITCHBURG	39219	417	49	2664	14	205	739	368
FLORIDA	685	145	0	1301	0	482	.	.
FOXBORO	14540	428	2	1033	30	97	.	.
FRAMINGHAM	63611	539	38	2116	45	143	1480	1353
FRANKLIN	20682	303	2	779	16	166	.	.
FREETOWN	8359	121	0	574	0	113	.	.
GARDNER	18459	542	72	2794	38	188	1440	842
GAY HEAD	253	397	0	2183	132	0	.	.

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TOWN	PROJECTED HOSP CENSUS 1990	HOSP RATE PER YEAR 1985-1987	PATIENTS RATE PER YEAR 1986-1988	DEATHS RATE PER YEAR 1986-1988	TREAT ADMITS FY86-FY89	WEEKLY SELFHELP RATE PER YEAR 1986-1988	LIQ LICENSE RATE PER YEAR 1986 & 1989	COURT OUI RATE PER YEAR 1986-1988	COURT HARC RATE PER YEAR 1986-1988
GEORGETOWN	5983	106	0	0	760	17	129	.	.
GILL	1327	76	0	0	2443	0	354	.	.
GLOUCESTER	28144	529	42	0	1952	62	206	993	1497
GOSHEH	792	86	0	0	1063	0	387	.	.
GOSHOLD	35	0	0	0	7143	952	0	.	.
GRAFTON	12185	273	6	0	1050	8	185	.	.
GRANDY	5759	140	17	0	1285	12	157	.	.
GRANVILLE	1379	73	0	0	715	73	147	.	.
GREAT BARRINGTON	7435	76	45	0	1339	36	529	3049	1260
GREENFIELD	17581	9	49	0	6656	91	221	1851	900
GROTON	7637	254	4	0	911	4	125	.	.
GROVELAND	5023	172	0	0	875	33	146	.	.
HADLEY	4305	148	8	0	1061	0	560	.	.
HALIFAX	6626	261	0	0	1278	20	159	.	.
HAMILTON	7114	66	0	0	856	42	117	.	.
HAMPDEN	4622	122	14	0	1079	14	137	.	.
HAMCOCK	586	169	0	0	551	0	847	.	.
HANOVER	12156	119	6	0	555	41	204	.	.
HANSON	9466	178	0	0	933	11	160	.	.
HARDWICK	2312	346	14	0	715	0	462	.	.
HARVARD	13938	53	15	0	178	7	0	.	.
HARWICH	10527	267	6	0	1251	58	202	.	.
HATFIELD	3262	237	0	0	1165	0	412	.	.
HAVERHILL	48999	281	37	0	1367	31	168	893	545
HAYLEY	433	638	0	0	1017	0	0	.	.
HEATH	641	0	0	0	1877	0	160	.	.
HIGHAM	20509	278	7	0	731	46	140	3403	1711
HINSDALE	1775	57	0	0	1526	75	320	.	.
HOLBROOK	10773	302	3	0	1064	9	120	.	.
HOLDEH	13812	208	15	0	454	7	80	.	.
HOLLAND	1820	56	19	0	1295	19	371	.	.
HOLLISTON	12925	266	0	0	812	31	72	.	.
HOLYOKE	41486	485	91	0	3222	37	228	653	1506
HOPEDALE	3993	357	8	0	1137	75	42	.	.
HOPKINTON	9489	357	14	0	841	14	298	.	.
HUBBARDSTON	2039	231	17	0	1959	0	182	.	.
HUDSON	17905	464	6	0	1003	9	162	515	289
HULL	9875	463	3	0	2292	20	384	.	.
HUNTINGTON	2019	217	0	0	1677	33	263	.	.
IPSWICH	11700	120	11	0	1131	37	242	1972	2007
KINGSTON	9135	197	7	0	1292	23	164	.	.
LAKEVILLE	8808	113	16	0	965	0	0	.	.
LANCASTER	6188	253	0	0	1225	0	244	.	.
LANESBORO	5142	488	0	0	1401	27	191	.	.
LAWRENCE	62565	484	54	0	2243	39	423	1128	570
LEE	5971	695	56	0	2131	10	510	.	.
LEICESTER	9764	312	3	0	963	20	176	.	.
LENOX	6607	384	10	0	1106	44	63	.	.
LEOMINSTER	35227	268	31	0	2052	0	65	.	.
LEVERETT	1609	167	0	0	751	18	158	.	.
LEXINGTON	27709	228	6	0	423	0	.	.	.
LEYDEN	648	8215	0	0	1422	0	.	.	.

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TOWN	PROJECTED CENSUS 1990	HOSP PATIENTS RATE PER YEAR 1985-1987	DEATHS RATE PER YEAR 1986-1988	TREAT ADMITS RATE PER YEAR FY86-FY89	WEEKLY SELFHELP RATE PER YEAR 1986-1988	LIC LICENSE RATE PER YEAR 1986 & 1989	COURT OUI RATE PER YEAR 1986-1988	COURT MARC RATE PER YEAR 1986-1988
LINCOLN	7954	187	8	286	38	0	.	.
LITTLETON	7248	485	9	734	32	74	.	.
LONGMEADOW	16292	61	8	469	25	84	.	.
LOWELL	94024	393	67	2241	26	147	1512	2043
LUDLOW	18769	125	23	865	7	191	.	.
LUNENBURG	8913	169	11	886	4	177	.	.
LYNN	78163	674	50	2114	45	179	1004	976
LYNNFIELD	11298	118	6	664	9	89	.	.
MALDEN	53243	526	22	1304	33	130	1195	857
MAICHESTER	4974	153	13	1115	73	312	.	.
MANSFIELD	15228	286	2	1017	16	146	.	.
MARBLEHEAD	18549	412	2	891	103	166	.	.
MARION	4387	92	0	1047	146	269	.	.
MARLBORO	31044	594	38	1545	58	202	918	731
MARSHFIELD	23463	213	9	1092	40	145	.	.
MASHPEE	6913	258	25	2176	61	263	.	.
MATTAPOISETT	6103	204	0	843	22	226	.	.
MAYNARD	9974	849	10	1155	97	74	.	.
MEDFIELD	10829	254	9	931	50	51	.	.
MEDFORD	56296	417	17	867	20	118	.	.
MEDWAY	10048	351	0	683	26	28	.	.
MELROSE	27973	352	47	787	19	279	.	.
MENDON	3632	233	0	1054	14	122	.	.
MERRIMAC	4971	237	7	1046	17	137	.	.
METHUEN	40716	221	43	900	32	150	.	.
MIDDLEBORO	18895	297	18	1302	0	214	.	.
MIDDLEFIELD	476	0	0	855	122	385	1662	1123
MIDDLETON	5024	149	0	1053	18	186	.	.
MILFORD	24350	425	43	1284	8	173	.	.
MILLBURY	11771	11	11	1170	14	147	.	.
MILLIS	7314	582	0	787	0	272	.	.
MILLVILLE	2263	211	0	600	22	20	.	.
MILTON	25354	428	50	638	0	1034	.	.
MONROE	125	258	0	5620	0	205	.	.
MONSON	7669	179	4	743	4	255	.	.
MONTAQUE	8099	457	70	2951	21	100	.	.
MONTEREY	1022	299	0	896	0	0	.	.
MONTGOMERY	692	146	0	1237	0	0	.	.
MOUNT WASHINGTON	101	3333	0	2000	0	0	.	.
NAHAUIT	3825	252	9	866	26	208	1451	1398
NAANTUCKET	6375	683	27	2289	176	443	730	354
NATICK	30147	459	51	1028	17	63	.	.
NEEDHAM	26974	312	20	434	32	34	.	.
NEH ASHFORD	139	704	0	4401	0	3991	.	.
NEH BEDFORD	96566	475	55	1991	22	194	737	2163
NEH BRAINTREE	705	95	0	1104	0	237	.	.
NEH MARLBORO	1409	987	24	469	0	481	.	.
NEH SALEM	925	74	0	1134	0	147	.	.
NEHBURY	5706	119	0	778	12	173	.	.
NEHBURYPORT	16816	6	60	1652	76	237	3280	1527
NEHTON	81219	255	20	555	33	123	329	119
NORFOLK	8531	252	32	772	140	84	.	.

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NORTH ADAMS	16681	509	119	2377	0	252	1403	450
NORTH ANDOVER	23924	180	3	663	21	99	.	.
NORTH ATTLEBORO	25720	290	1	858	12	107	.	.
NORTH BROOKFIELD	4290	670	0	1175	0	359	.	.
NORTH READING	11823	260	0	653	42	141	.	.
NORTHAMPTON	29064	10	87	2329	37	230	2354	1119
NORTHBORO	11378	307	3	951	18	189	.	.
NORTHBRIDGE	12496	331	21	1012	21	182	.	.
NORTHFIELD	2462	81	0	1415	27	136	.	.
NORTON	14627	296	9	1096	25	199	.	.
NORHELL	9683	145	0	605	42	145	.	.
NORWOOD	27336	551	50	1101	24	155	.	.
OAK BLUFFS	2562	1795	93	1785	239	425	.	.
OAKHAM	1487	371	0	2009	0	162	.	.
ORANGE	7663	13	9	2206	26	299	2423	1411
ORLEANS	6605	304	0	1586	149	463	9233	5229
OTIS	980	272	34	2041	34	850	.	.
OXFORD	12485	532	3	1018	8	191	.	.
PALMER	11900	475	28	1437	23	279	3255	1069
PAXTON	3833	192	0	562	0	200	1326	490
PEABODY	46065	385	14	1131	27	157	.	.
PELHAM	1436	1848	0	1031	0	213	.	.
PEMBROKE	15620	195	4	1038	13	175	.	.
PEPPERELL	10610	193	6	775	10	48	.	.
PERU	823	868	0	1055	0	83	.	.
PETERSHAM	950	139	0	1437	0	697	.	.
PHILLIPSTON	1100	5817	0	1247	0	431	.	.
PITTSFIELD	48737	520	52	3029	12	213	813	478
PLAINFIELD	485	557	0	3653	0	974	.	.
PLAINVILLE	6191	406	5	1043	27	298	.	.
PLYMOUTH	43417	240	32	1811	59	145	1616	765
PLYMPTON	2472	83	0	1702	83	83	.	.
PRINCETON	3007	158	0	534	34	237	.	.
PROVINCETOWN	3490	286	29	2299	306	869	1837	846
QUINCY	81296	493	37	1946	57	143	.	.
RAIDOLPH	28566	346	6	866	27	119	.	.
RAYNHAM	9800	175	3	789	27	243	.	.
READING	22448	246	1	655	6	47	.	.
REHOBOTH	9172	85	4	427	0	178	.	.
REVERE	44308	475	11	1464	15	156	.	.
RICHMOND	1622	144	0	1017	0	0	.	.
ROCHESTER	4461	100	8	652	15	85	.	.
ROCKLAND	15483	239	9	1037	41	157	.	.
ROCKPORT	6661	251	5	841	45	0	.	.
ROHE	415	163	0	917	0	0	.	.
ROWLEY	4321	257	0	947	47	234	.	.
ROYALSTON	1133	239	30	827	0	268	.	.
RUSSELL	1612	104	0	1013	0	457	.	.
RUTLAND	4750	382	14	929	7	85	.	.
SALEM	37552	620	74	1705	43	206	2286	1041
SALISBURY	7960	1353	9	1620	26	266	.	.
SANDISFIELD	831	81	41	1551	0	608	.	.

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SAUNDWICH	14745	151	2	1228	26	205	.	.
SAUGUS	26060	238	10	953	12	148	.	.
SAVOY	821	290	0	1399	0	249	.	.
SCITUATE	17391	292	4	867	65	140	.	.
SEEKONK	13118	33	10	357	15	202	.	.
SHARON	15068	174	7	491	27	13	.	.
SHEFFIELD	2640	277	50	1142	25	365	.	.
SHELBURNE	2067	194	16	2268	49	404	.	.
SHERBORN	4250	307	8	608	31	55	.	.
SHIRLEY	5949	341	0	1568	34	165	.	.
SIRENDSBURY	22684	328	4	923	6	160	.	.
SHUTESBURY	1335	26	0	1419	0	77	.	.
SOMERSET	17953	139	2	902	26	129	.	.
SOMERVILLE	71300	618	25	1641	16	140	1001	681
SOUTH HADLEY	16747	162	8	1083	26	183	.	.
SOUTHAMPTON	4701	115	0	791	0	237	.	.
SOUTHBORO	6448	306	5	736	26	228	.	.
SOUTHBURIE	16398	645	61	1991	6	264	.	.
SOUTHWICK	7998	201	8	1514	8	277	.	.
SPENCER	11753	306	3	1158	9	200	2751	1361
SPRINGFIELD	145380	151	60	3645	28	155	1003	1525
STERLING	7260	301	5	837	5	141	.	.
STOCKBRIDGE	2395	237	14	1508	70	475	.	.
STONEHAM	22918	280	48	742	38	82	.	.
STOUGHTON	27364	306	39	976	24	167	1902	919
STON	5486	239	0	675	37	104	.	.
STURBRIDGE	8250	174	17	935	12	378	.	.
SUDBURY	14080	263	7	563	24	111	.	.
SUNDERLAND	2991	201	11	1299	22	369	.	.
SUTTON	6943	965	0	651	10	166	.	.
SHAMPSCOTT	12544	210	3	659	45	129	.	.
SHANSEA	16052	148	8	825	10	175	.	.
TAUNTON	47119	365	29	1566	36	169	1930	829
TEMPLETON	6078	384	11	1358	0	291	.	.
TEHKSBUARY	25896	144	26	965	12	122	.	.
TISBURY	3784	1332	0	1066	108	0	.	.
TOLLAND	267	631	0	758	0	253	.	.
TOPSFIELD	5518	193	6	690	36	0	.	.
TOHNSEND	9421	214	4	715	11	91	.	.
TRURO	1508	89	22	1827	199	288	.	.
TYNGSBORO	8789	145	0	1005	0	240	.	.
TYRINGHAM	386	436	87	2945	0	0	.	.
UPTON	4378	393	8	976	38	192	.	.
UXBRIDGE	9185	432	7	1359	18	205	4638	2185
HAKEFIELD	25057	290	5	938	23	68	.	.
HALES	1653	166	0	1355	0	187	.	.
HALEPOLE	20522	365	3	969	15	175	.	.
HAITHAM	56825	492	42	2000	29	130	1057	823
HARE	10126	283	47	1344	33	226	1142	549
HAREHAM	21906	291	43	1919	29	189	2845	1424
HARREN	4023	450	8	1669	0	292	.	.
HARWICK	612	5619	0	3560	0	273	.	.

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WASHINGTON	614	764	0	1227	0	436	.	.
WATERTOWN	32616	373	11	958	34	167	.	.
HAYLAND	12052	254	3	483	25	119	.	.
WEBSTER	15157	818	31	1341	22	316	.	.
WELLESLEY	26538	217	11	381	18	60	.	.
WELLFLEET	2575	354	13	1996	13	275	.	.
WENDELL	830	450	0	2088	0	123	.	.
WENHAM	3788	175	9	559	9	0	.	.
WEST BOYLSTON	5977	256	0	762	0	200	.	.
WEST BRIDGEWATER	6828	187	5	752	15	197	.	.
WEST BROOKFIELD	3495	280	39	891	39	280	.	.
WEST NEWBURY	3413	89	10	692	0	79	.	.
WEST SPRINGFIELD	26636	159	9	1720	25	195	.	.
WEST STOCKBRIDGE	1294	335	0	1740	26	412	.	.
WEST TISBURY	1392	369	25	794	0	0	.	.
WESTBORO	12954	425	15	956	61	228	4734	2473
WESTFIELD	37981	274	25	1896	21	139	974	330
WESTFORD	15353	167	2	668	18	178	.	.
WESTHAMPTON	1505	4681	0	699	0	0	.	.
WESTMINSTER	5578	259	6	822	12	187	.	.
WESTON	10646	125	16	276	37	0	.	.
WESTPORT	14251	169	0	838	23	185	.	.
WESTHOOD	12099	317	3	600	44	0	.	.
WEYMOUTH	54320	377	69	1137	29	115	.	.
WHATELY	1388	145	48	849	0	506	.	.
WHITMAN	13965	192	2	963	7	129	.	.
WILBRAHAM	12341	119	0	757	51	195	.	.
WILLIAMSBURG	2603	169	0	1422	39	481	.	.
WILLIAMSTOWN	8006	256	8	600	0	305	.	.
WILMINGTON	17458	256	4	769	21	69	.	.
WINCHENDON	8163	389	17	1652	12	282	493	.
WINCHESTER	19610	331	57	625	25	49	749	.
WINDSOR	621	323	0	2141	54	323	.	.
WINTHROP	18712	288	21	1084	23	103	.	.
WOBURN	38268	476	36	899	17	89	2400	1214
Worcester	154708	863	69	2645	23	180	876	1099
WORTHINGTON	1339	180	26	1195	0	411	.	.
WRENTHAM	9511	236	7	1277	32	143	8307	5463
YARMOUTH	20784	289	13	1878	28	251	.	.

ICD-9 CODES FOR SUBSTANCE USE INDICATOR PROJECT AS OF 1/17/90
USED TO SELECT RECORDS FOR HOSPITAL DISCHARGE & DEATH DATASETS

070.2 Viral hepatitis B with hepatic coma
070.3 Viral hepatitis B without mention of hep. coma

265.2 Pellagra

291.0 Alcohol withdrawal delirium
291.1 Alcohol amnestic syndrome
291.2 Other alcohol dementia
291.3 Alcohol withdrawal hallucinosis
291.4 Idiosyncratic alcohol intoxication
291.5 Alcoholic jealousy (paranoia, paranoid psychosis)
291.8 Other specified alcoholic psychosis
291.9 Unspecified alcoholic psychosis

292.0 Drug withdrawal syndrome
292.1 Paranoid and/or hallucinatory states induced by drugs
292.2 Pathological drug intoxication
292.8 Other specified drug-induced mental disorders
292.9 Unspecified drug-induced mental disorders

292.11 Drug-induced organic delusional syndrome
292.12 Drug-induced hallucinosis
292.81 Drug-induced delirium
292.82 Drug-induced dementia
292.83 Drug-induced amnestic syndrome
292.84 Drug-induced organic syndrome
292.85 Drug-induced organic personality syndrome

303.0 Acute alcohol intoxication
303.9 Other and unspecified alcohol dependence

304.0 Opioid type dependence
304.1 Barb and similarly acting sedative....
304.2 Cocaine Dependence
304.3 Cannabis dependence
304.4 Amph and other psycho-stimulant dependence
304.5 Hallucinogen dependence
304.6 Other specified drug dependence
304.7 Combinations of opioid type dependence with any other drug
304.8 Combinations of drug dependence excluding opioid drug
304.9 Unspecified drug dependence

APPENDIX D

ICD-9 CODES USED TO SELECT RECORDS
FROM THE HOSPITAL DISCHARGE AND DEATH CERTIFICATE DATABASES

- 305.0 Alcohol abuse
- 305.1 Tobacco use disorder
- 305.2 Cannabis abuse
- 305.3 Hallucinogen abuse
- 305.4 Barb and similarly acting sedative or hypnotic abuse
- 305.5 Opioid abuse
- 305.6 Cocaine abuse
- 305.7 Amphetamine or related acting sympathomimetic abuse
- 305.8 Antidepressant type abuse
- 305.9 Other, mixed or unspecified drug abuse

- 357.5 Alcoholic polyneuropathy

- 425.5 Alcoholic cardiomyopathy

- 535.3 Alcoholic gastritis

- 571.0 Alcoholic fatty liver
- 571.1 Acute alcoholic hepatitis
- 571.2 Alcoholic cirrhosis of the liver
- 571.3 Alcoholic liver damage, unspecified
- 571.4 Chronic hepatitis
- 571.5 Cirrhosis of liver without mention of alcohol
- 571.6 Biliary cirrhosis
- 571.8 Other Chronic nonalcoholic liver disease
- 571.9 Unspecific chronic liver disease without mention of alcohol

- 572.3 Portal hypertension

- 573.3 Hepatitis, unspecified

- 760.71 Fetal alcohol syndrome
- 760.72 Fetal disorder — narcotic induced
- 760.73 Fetus disorder — hallucinogenic agents induced

- 790.3 Excessive level of blood alcohol

965.00 Poisoning by opium-unspecified
 965.01 Poisoning by heroin
 965.02 Poisoning by methadone
 965.09 Poisoning by other analgesics, antipyretics, or antileptanics

 967.0 Poisoning by barbiturates
 967.1 Poisoning by chloral hydrate group substances
 967.2 Poisoning by paraldehyde
 967.3 Poisoning by bromine compounds
 967.4 Poisoning by Methaqualone compounds
 967.5 Poisoning by Glutethimide group substances
 967.6 Poisoning by Mixed sedatives not elsewhere classified
 967.8 Poisoning by other sedatives and hypnotics
 967.9 Poisoning by unspecified sedatives and hypnotics

 968.5 Poisoning by surface and infiltration anesthetics

 969.0 Poisoning by antidepressants
 969.1 Poisoning by phenothiazine-based tranquilizers
 969.2 Poisoning by butyrophenone-based tranquilizers
 969.3 Poisoning by other anti-psychotic and neuroleptic tranquilizers
 969.4 Poisoning by benzodiazepine tranquilizers
 969.5 Poisoning by other tranquilizers
 969.6 Poisoning by hallucinogens
 969.7 Poisoning by psychostimulants
 969.8 Poisoning by other specified psychotropic agents
 969.9 Poisoning by unspecified psychotropic agents

 970.1 Poisoning by opiate antagonists

 977.3 Alcohol deterrents

 980.0 Ethyl alcohol
 980.1 Methyl alcohol
 980.2 Isopropyl alcohol
 980.8 Other specified alcohol
 980.9 Unspecified alcohol

 E850.0 Accidental poisoning by heroin
 E850.1 Accidental poisoning by Methadone
 E850.2 Accidental poisoning by other opiates and related narcotics

 E851 Accidental poisoning by Barbiturates

- E852.0 Accidental poisoning by chloral hydrate group substances
- E852.1 Accidental poisoning by paraldehyde
- E852.2 Accidental poisoning by bromide compounds
- E852.3 Accidental poisoning by methaqualone compounds
- E852.4 Accidental poisoning by glutethimide group substances
- E852.5 Accidental poisoning by mixed sedatives not mentioned
- E852.8 Accidental poisoning by other specified sedatives/hypnotics
- E852.9 Accidental poisoning by unspecified tranquilizers

- E853.0 Accidental poisoning by phenothiazine-based tranquilizers
- E853.1 Accidental poisoning by butyrophenone-based tranquilizers
- E853.2 Accidental poisoning by benzodiazepine-based tranquilizers
- E853.8 Accidental poisoning by other specified tranquilizers
- E853.9 Accidental poisoning by unspecified tranquilizers

- E854.0 Accidental poisoning by psychotropic agents
- E854.1 Accidental poisoning by psychodysleptics
- E854.2 Accidental poisoning by psychostimulants
- E854.3 Accidental poisoning by other central nervous system stimulants

- E855.2 Accidental poisoning by local anesthetics (cocaine)

- E860.0 Accidental poisoning by alcoholic beverages
- E860.1 Other ar.1 unspecified ethyl alc and its products
- E860.2 Methyl alcohol
- E860.3 Isopropyl alcohol
- E860.8 Other specified alcohol
- E860.9 Unspecified alcohol

- E950.0 Suicide by analgesics, antipyretics, and antirheumatics
- E950.1 Suicide by barbiturate
- E950.2 Suicide by other sedative and hypnotic
- E950.3 Suicide by tranquilizers and other medicinal substances
- E950.4 Suicide by other specified drugs and medicinal substances
- E950.5 Suicide by other unspecified drugs and medicinal substances

Poisoning with undetermined intention (accidental or purposely inflicted)

- E980.0 Poisoning by analgesics
- E980.1 Poisoning by barbiturates
- E980.2 Poisoning by other sedatives
- E980.3 Poisoning by tranquilizers
- E980.4 Poisoning by other specified drug or medicinal substance
- E980.5 Poisoning by other unspecified drug or medicinal substance

